CDP-338ESD/608ESD

SERVICE MANUAL

US Model
Canadian Model
CDP-608ESD
AEP Model
UK Model
E Model
CDP-338ESD



This photo is CDP-338ESD

SPECIFICATIONS

Compact disc player

Frequency response	2 Hz – 20 kHz ± 0.5 dB (CDP-338ESD) 2 Hz – 20 kHz ± 0.3 dB (CDP-608ESD)
Signal to noise ratio	More than 113 dB
Dynamic range	More than 100 dB
Harmonic distortion	Less than 0.0022%
Channel separation	More than 110 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kiloohms) Load impedance over 10 kiloohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kiloohms) Load impedance over 50 kiloohms
DIGITAL OUT (COAXIAL) (cable)	Output level max. 0.5 Vp-p Load impedance 75 ohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level −18 dBm
HEADPHONES (stereo phone jack)	Output level max. 28 mW Load impedance 32 ohms

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

Model Name Using Similar Mechanism	New
CD Transport Mechanism Type	KSS-151A
Optical Pick-Up Block Type	BU-6B

General

Power requirements	AEP Model: (CDP-338ESD) 220 V AC (or 240 V AC adjustable by Sony personnel), 50/60 Hz UK Model: (CDP-338ESD) 240 V AC (or 220 V AC adjustable by Sony personnel), 50/60 Hz US, Canadian Model: (CDP-608ESD) 120 V AC, 60Hz E Model: (CDP-338ESD) 110, 120, 220 or 240 V AC adjustable, 50/60 Hz
Power consumption	27 W
Dimensions (approx., including projections)	470×125×375 mm (w/h/d) (18 5/8 × 5 × 14 7/8 inches)
Weight (approx.)	12.5 kg (27 lbs 11 oz)

— continued on next page —

COMPACT DISC PLAYER

SONY®

Remote commander

Remote control system	Infrared control
Power requirements	3 V DC with two batteries size AA (IEC designation R6)
Dimensions	67×20×175 mm (w/h/d) ($2^3/_4$×$^{13}/_{16}$×7 inches)
Weight	135 g (4.7 oz) Including batteries

Supplied accessories

Connecting cord	1 (2 phono plugs ←→ 2 phono plugs)
Remote commander	1
Size AA batteries	2
Screws	4

Design and specifications subject to change without notice.

TABLE OF CONTENTS

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

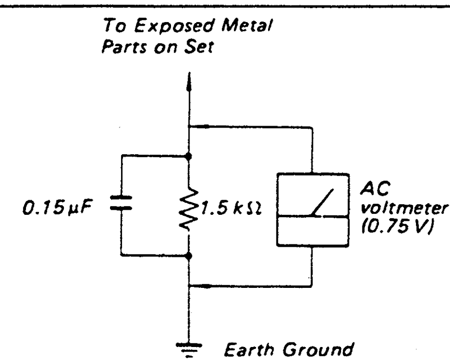


Fig. A. Using an AC voltmeter to check AC leakage.

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

CAUTION

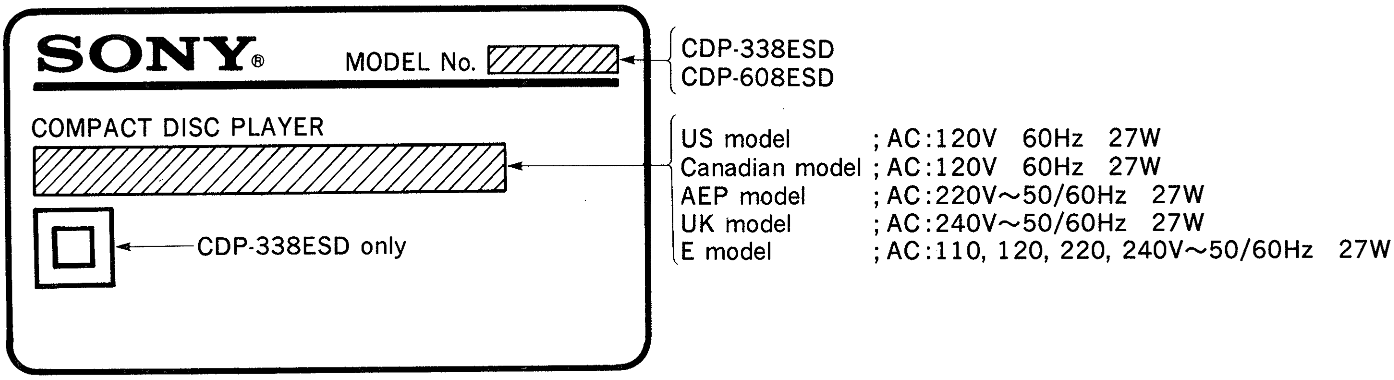
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

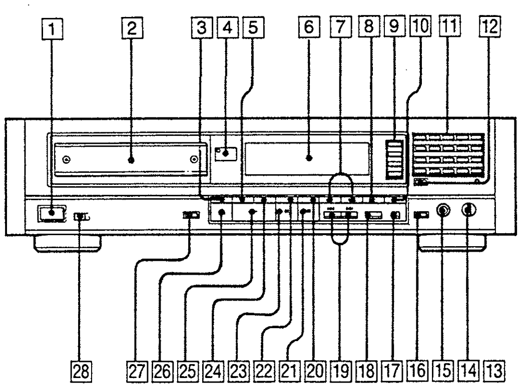
MODEL IDENTIFICATION

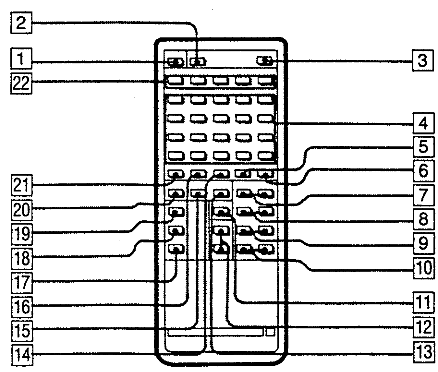
— Label Model Number —



SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS





1 POWER switch
2 Disc tray
3 TIME/MEMO button
4 Remote sensor
5 AUTO SPACE (auto space) button
6 Display window
7 ◄◄ ►► (manual search) buttons
8 CHECK (program check) button
9 PLAY MODE buttons
  PROGRAM button
  SHUFFLE button
  CONTINUE/SINGLE button
  CUSTOM INDEX button
10 CLEAR (program clear) button
11 Numeric buttons
12 >20 (over 20) button
13 DISPLAY ON/OFF button
14 LINE OUT/PHONE LEVEL control
15 HEADPHONES jack
16 EDIT/TIME FADE button
17 ERASE (memory erase) button
18 FILE (custom file) button
19 |◄◄ ►►| (AMS*) buttons
20 FILE RECALL button
21 ■ (stop) button
22 FADER (fade in/fade out) button
23 ❚❚ (pause) button
24 REPEAT button
25 ► (play) button
26 ▲ (open/close) button
27 DIGITAL OUTPUT ON/OFF button
28 Timer switch

*AMS is the abbreviation of Automatic Music Sensor.

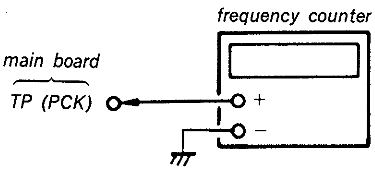
1 ▲ (open/close) button
2 FILE RECALL button
3 DISPLAY ON/OFF button
4 Numeric buttons
5 ERASE button
6 FILE (custom file) button
7 |◄◄ ►►| AMS buttons
8 ◄ ► INDEX buttons
9 ◄◄ ►► (manual search) buttons
10 ◄◄ ►► SLOW (low speed manual search) buttons
11 FADER (fade in/fade out) button
12 LINE OUT VOLUME (line out/headphone volume) buttons
13 TIME button
14 CLEAR (program clear) button
15 A↔B repeat button
16 CHECK button
17 ■ (stop) button
18 ❚❚ (pause) button
19 ► (play) button
20 CLEAR/REPEAT (A↔B repeat clear/repeat) button
21 >20 (over 20) button
22 PLAY MODE buttons
  PGM (program button)
  SHUFFLE button
  CONTINUE button
  SINGLE button
  C. INDEX button

SECTION 2
ELECTRICAL ADJUSTMENTS

1. Perform adjustments in the order given.
2. Use YEDS-18 (Part No: 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

RF PLL Frequency Adjustment

Procedure:

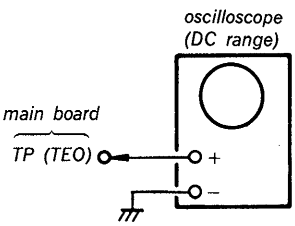


1. Connect the frequency counter to test point TP (PCK).
2. Turn POWER switch on.
3. Adjust RV201 so that the reading on the frequency counter is 4.3218MHz ±30kHz
4. Put disc (YEDS-18) in and press ▷ button.
5. Confirm that the reading on frequency counter is 4.3218MHz.

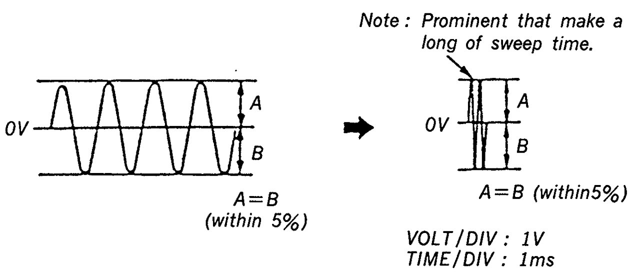
E-F Balance Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

Procedure:



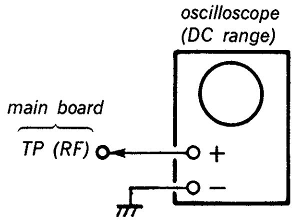
1. Connect oscilloscope to test point TP (TEO).
2. Connect test point TP (ADJ) and test point TP (TES) to ground with lead wire.
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press ▷ button.
5. Adjust RV101 so that the traverse waveform is symmetrical above and below.
6. After adjustment, remove the lead wire connected in step 5.



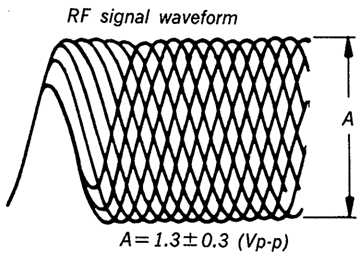
Focus Bias Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

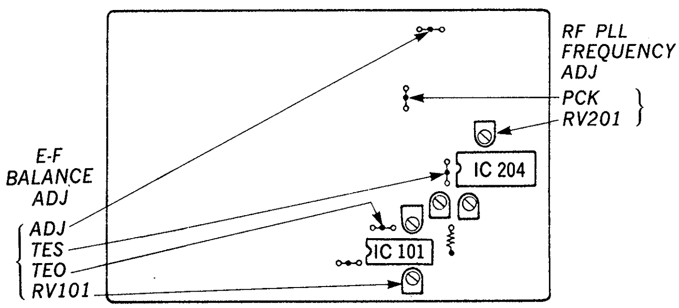
Procedure:



1. Connect oscilloscope to test point TP (RF).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Adjust RV104 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



Adjustment Location: main board



REFERENCE

Focus/Tracking Gain Adjustments

A frequency responce analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow up (vertical and horizontal) relative to mechanical noise and shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

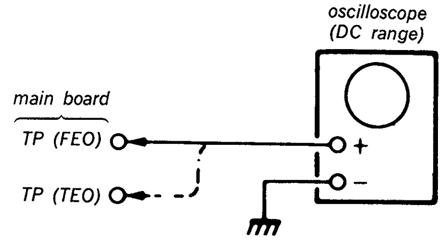
Gain / Symptoms	Focus	Tracking
• The time until music starts becomes longer for ■ → ▷ or automatic selection. (⏮, ⏭ buttons pressed.) (Normally tapes about 1 seconds.)	low	low or high
• Music does not start and disc continues to rotate for ■ → ▷ or automatic selection. (⏮, ⏭ buttons pressed.)	—	low
• Disc table opens shortly after ■ → ▷.	low or high	—
• Sound is interrupted during PLAY or time counter display stops progressing.	—	low
• More noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

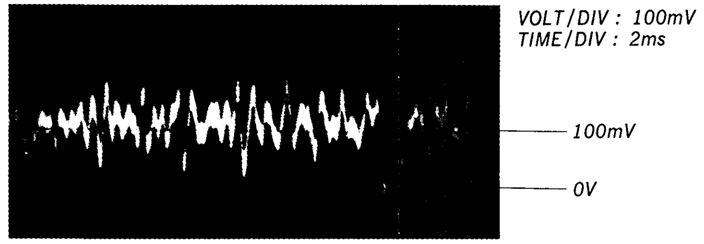
—Primary Adjustment—

Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the position after the primary adjustment are only a little different, return the controls to the original position.

Procedure :

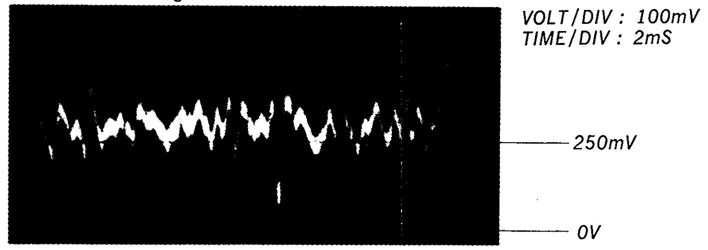


1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18 : Fifth Selection) and press ▷ button.
3. Connect oscilloscope to main board TP (FEO).
4. Adjust RV103 so that the waveform is as shown in the figure below. (focus gain adjustment)
5. Connect oscilloscope to main board TP (TEO).
6. Adjust RV102 so that the waveform is as shown in the figure below. (tracking gain adjustment)

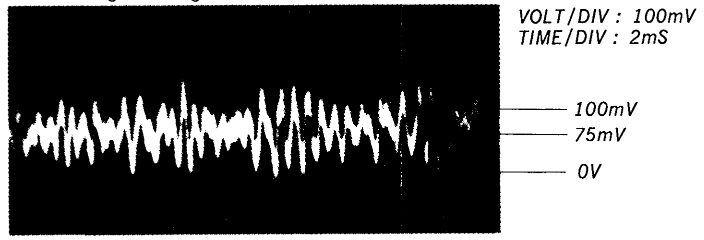


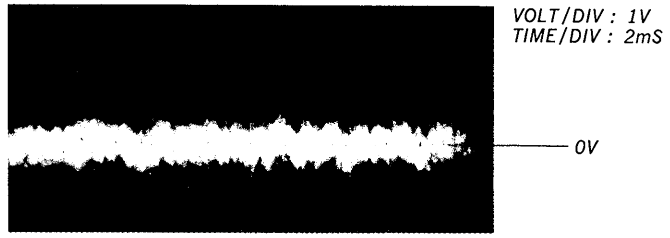
- Incorrent Examples (DC level changes more than on adjusted waveform)

low focus gain



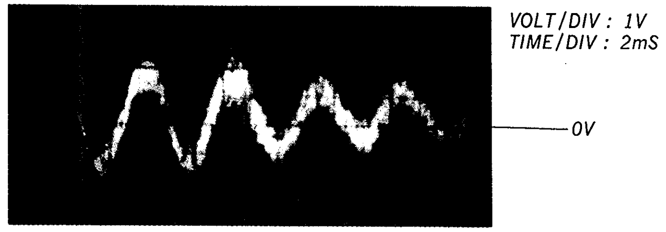
high focus gain



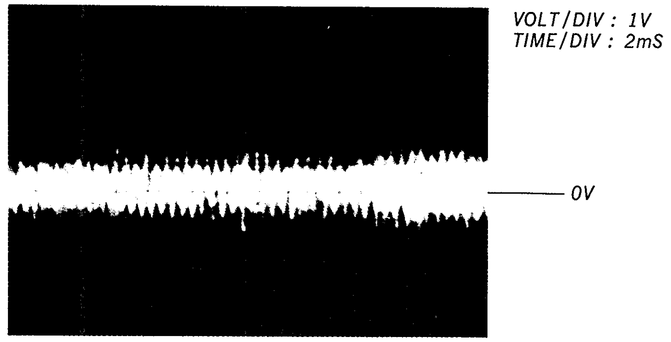


- Incorrect Examples (fundamental wave appears)

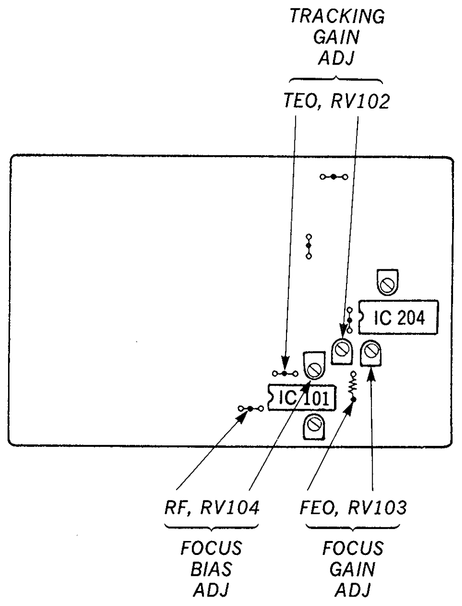
low tracking gain



high tracking gain
(higher fundamental wave than for low gain)

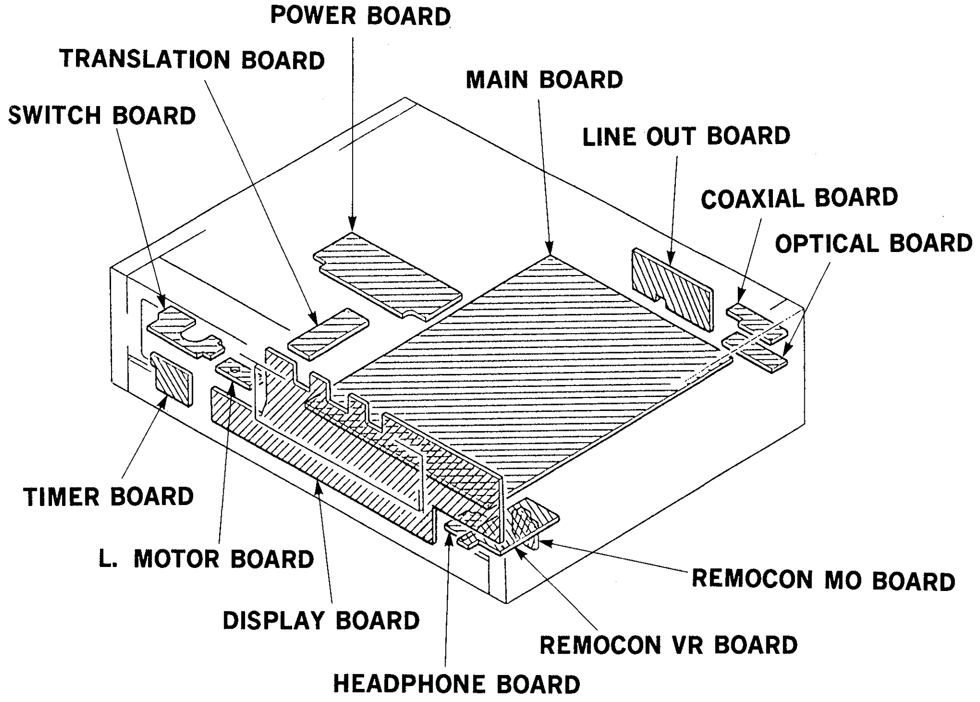


Adjustment Location : main board



SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION




- **Semiconductor Location**

Ref.No.	Location	Ref. No.	Location
D101	J-5	Q383	G-9
D381	D-10	Q801	H-20
D391	F-26	Q802	I-21
D802	G-16	Q901	E-10
D901	I-11	Q902	E-10
D902	I-11	Q950	G-9
D903	I-10	Q951	H-9
D904	I-10	Q952	I-8
D950	I-10	Q961	H-8
D951	I-9		
D952	I-9		
D953	I-9		
D955	I-8		
D956	I-8		
D957	G-8		
D958	I-9		
D961	I-9		
D962	I-9		
IC101	H-5		
IC201	H-2		
IC202	H-3		
IC204	F-3		
IC302	E-5		
IC303	F-6		
IC351	C-3		
IC352	B-3		
IC353	D-7		
IC354	C-6		
IC356	C-11		
IC357	C-11		
IC358	F-9		
IC391	E-24		
IC401	C-8		
IC402	C-9		
IC501	E-8		
IC502	E-9		
IC801	I-21		
IC802	I-17		
IC901	G-11		
IC902	G-10		
IC903	C-7		
IC905	G-9		
Q101	I-5		
Q205	E-2		
Q206	E-2		
Q381	G-10		
Q382	F-7		

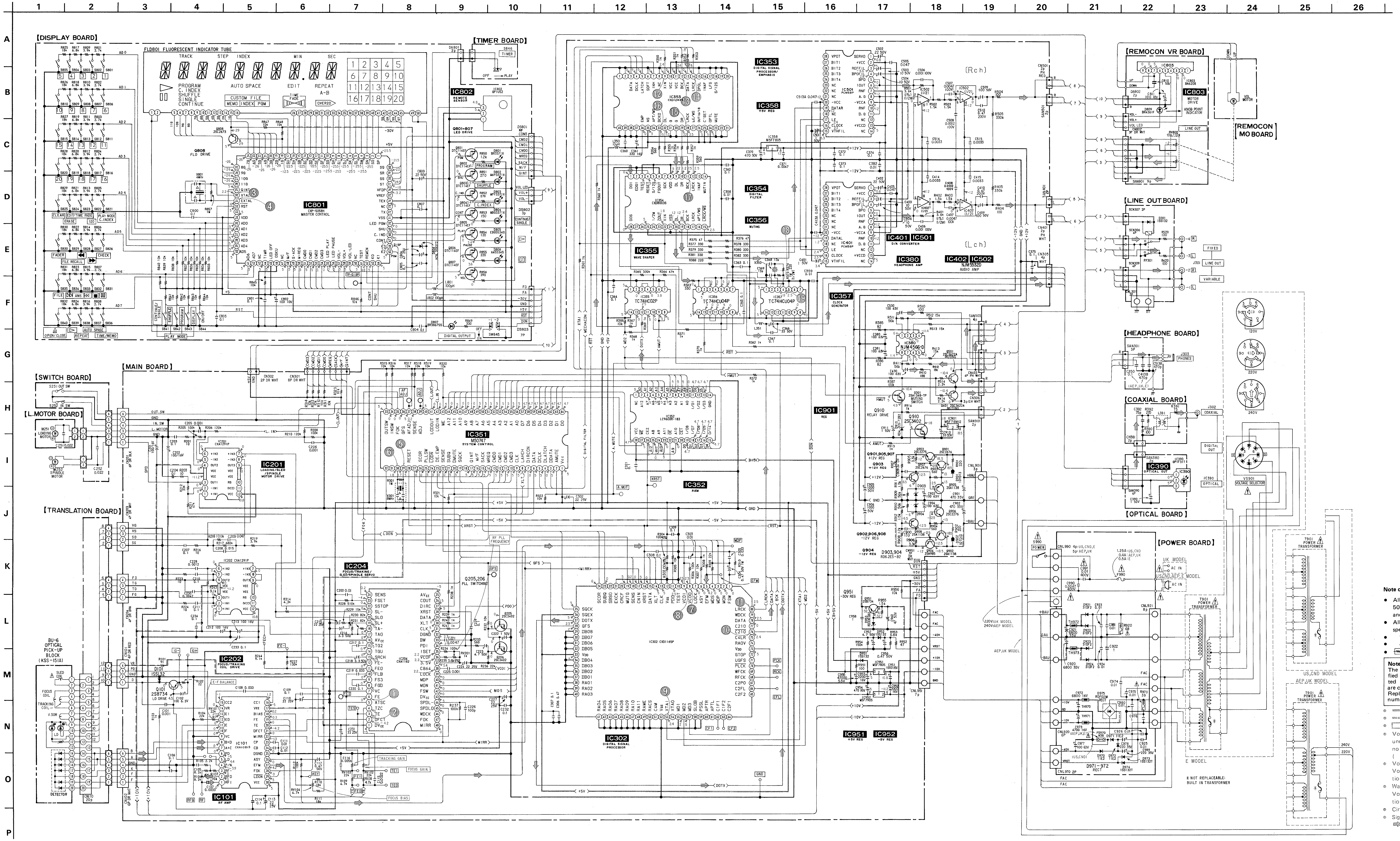
Note on Printed Wiring Board:

- ○—— : parts extracted from the component side.
- indicates side identified with part number.
- ○—●—○ : Jumper wire connected to the ground pattern on the component side.
- ■ : parts mounted on the conductor side.

3-2. PRINTED WIRING BOARDS • Refer to page 18 for Semiconductor Lead Layouts.



3-3. SCHEMATIC DIAGRAM • Refer to page 17 for Waveforms.



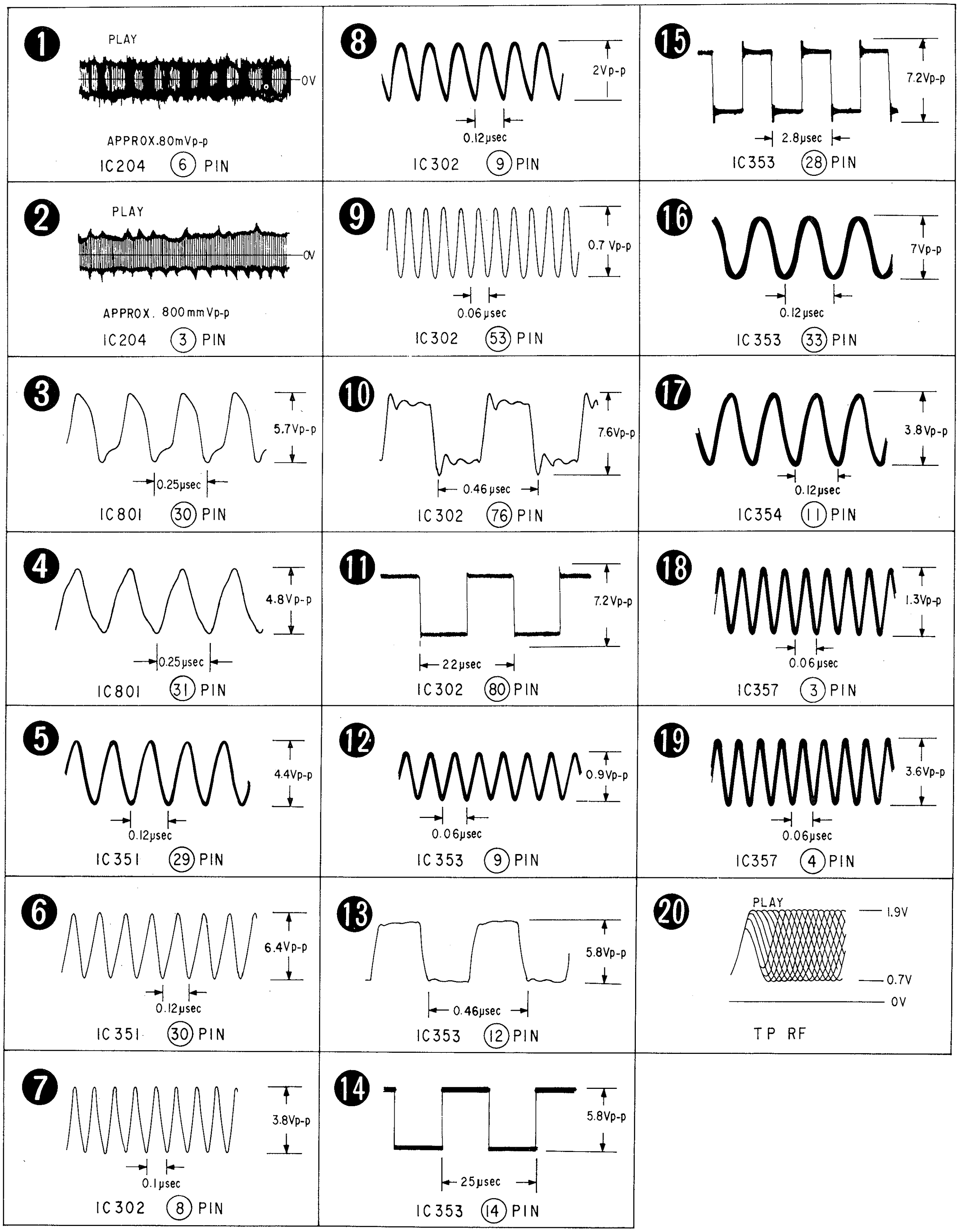
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- (fusible resistor symbol) : fusible resistor.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

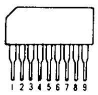
- (bold line) : B+ Line
- (dashed line) : B− Line
- (box) : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  (   ): PLAY
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  (arrow) : CD

- **Waveforms**

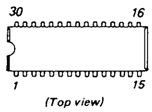

1
PLAY
OV
APPROX.80mVp-p
IC204 6 PIN
2
PLAY
OV
APPROX. 800mmVp-p
IC204 3 PIN
3
5.7Vp-p
0.25μsec
IC801 30 PIN
4
4.8Vp-p
0.25μsec
IC801 31 PIN
5
4.4Vp-p
0.12μsec
IC351 29 PIN
6
6.4Vp-p
0.12μsec
IC351 30 PIN
7
3.8Vp-p
0.1μsec
IC302 8 PIN
8
2Vp-p
0.12μsec
IC302 9 PIN
9
0.7 Vp-p
0.06μsec
IC302 53 PIN
10
7.6Vp-p
0.46μsec
IC302 76 PIN
11
7.2Vp-p
22μsec
IC302 80 PIN
12
0.9Vp-p
0.06μsec
IC353 9 PIN
13
5.8Vp-p
0.46μsec
IC353 12 PIN
14
5.8Vp-p
25μsec
IC353 14 PIN
15
7.2Vp-p
2.8μsec
IC353 28 PIN
16
7Vp-p
0.12μsec
IC353 33 PIN
17
3.8Vp-p
0.12μsec
IC354 11 PIN
18
1.3Vp-p
0.06μsec
IC357 3 PIN
19
3.6Vp-p
0.06μsec
IC357 4 PIN
20
PLAY
1.9V
0.7V
OV
TP RF

3-4. SEMICONDUCTOR LEAD LAYOUTS

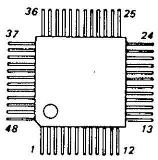
BA6208



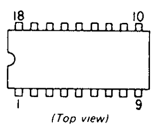
CXA1081S



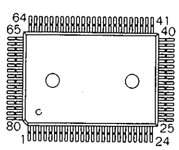
CXA1182S



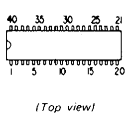
CXA1291P



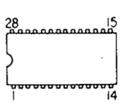
CXD1165Q
CXP5058H-162Q



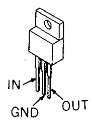
CXD1244S



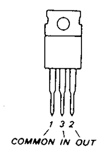
CXD8003S
LC9600R-183
PCM58P-J



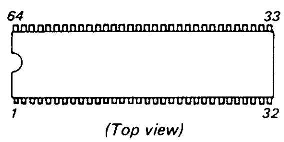
M5F78M12
M5F7805



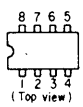
M5F7905



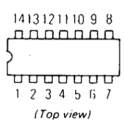
M50747-161SP



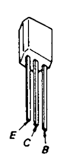
RC4556D
RC5532D-D



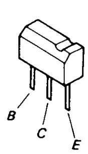
TC74HCU04P
TC74HC02P



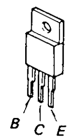
DTA114ES
DTC114ES



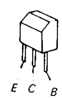
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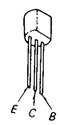
2SA985P
2SC2275A



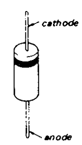
2SA1138-F
2SB734
2SC2676



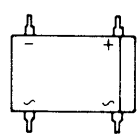
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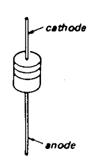
HZ8.2E-B3



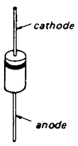
RDF02M



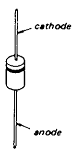
RD33ES-B2
RD4.7ES-B2
RD6.2JS-B2
11ES2



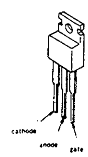
1SS202-1
10YD1.3-A



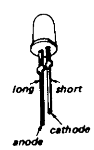
31DF2



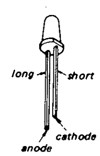
5P-4M



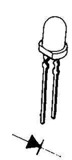
AA5534S



BG5535S



BR3371X
MAY3371X
MBG3371X
MPY3371X-117

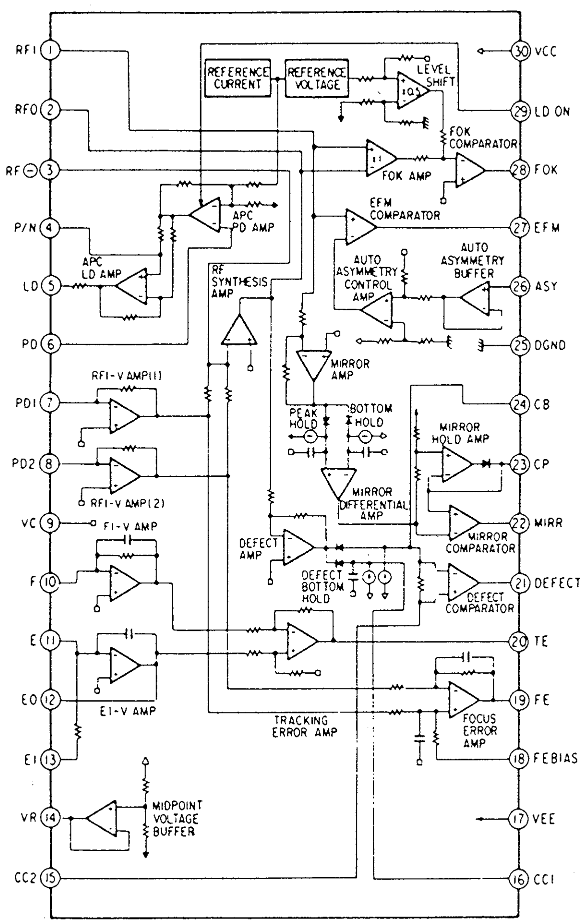


BR3867S

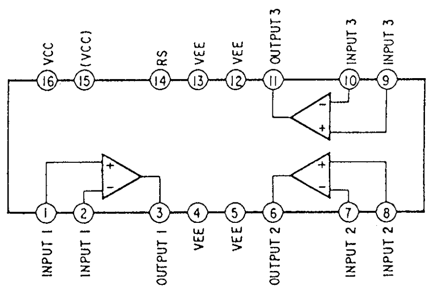


• IC Block Diagrams

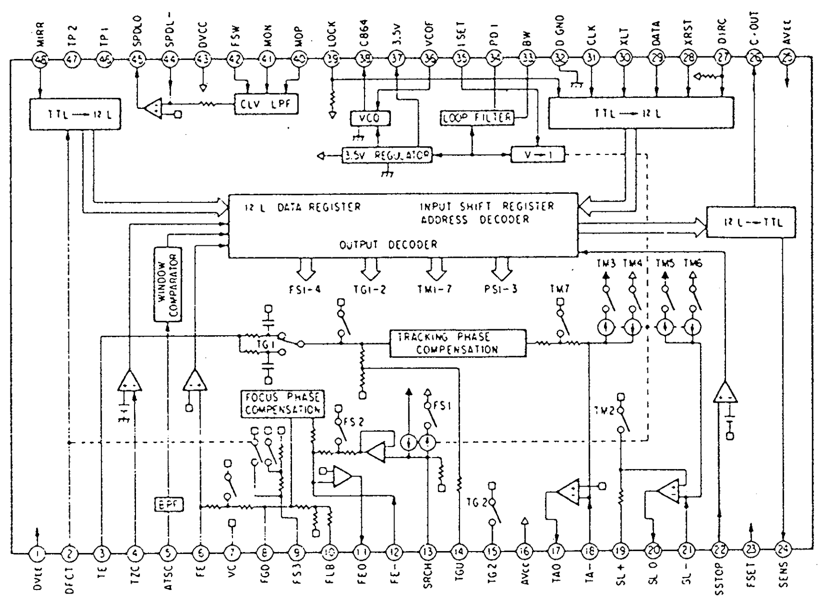
IC101 CXA1081S



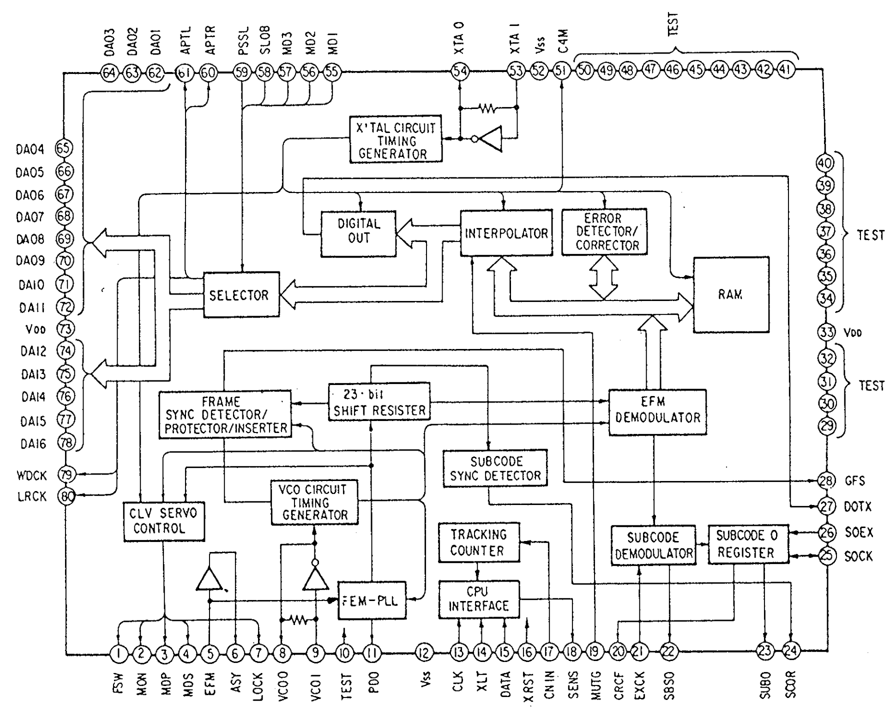
IC201, 202 CXA1291P



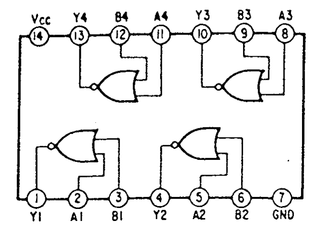
IC204 CXA1182S



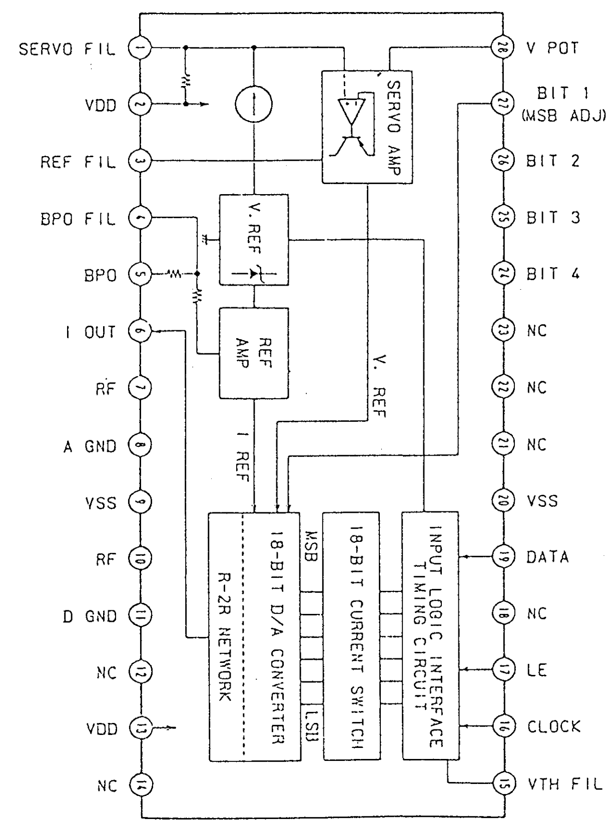
IC302 CXD1165Q



IC355 TC74HC02P



IC401, 501 PCM58P-J



SECTION 4
EXPLODED VIEWS

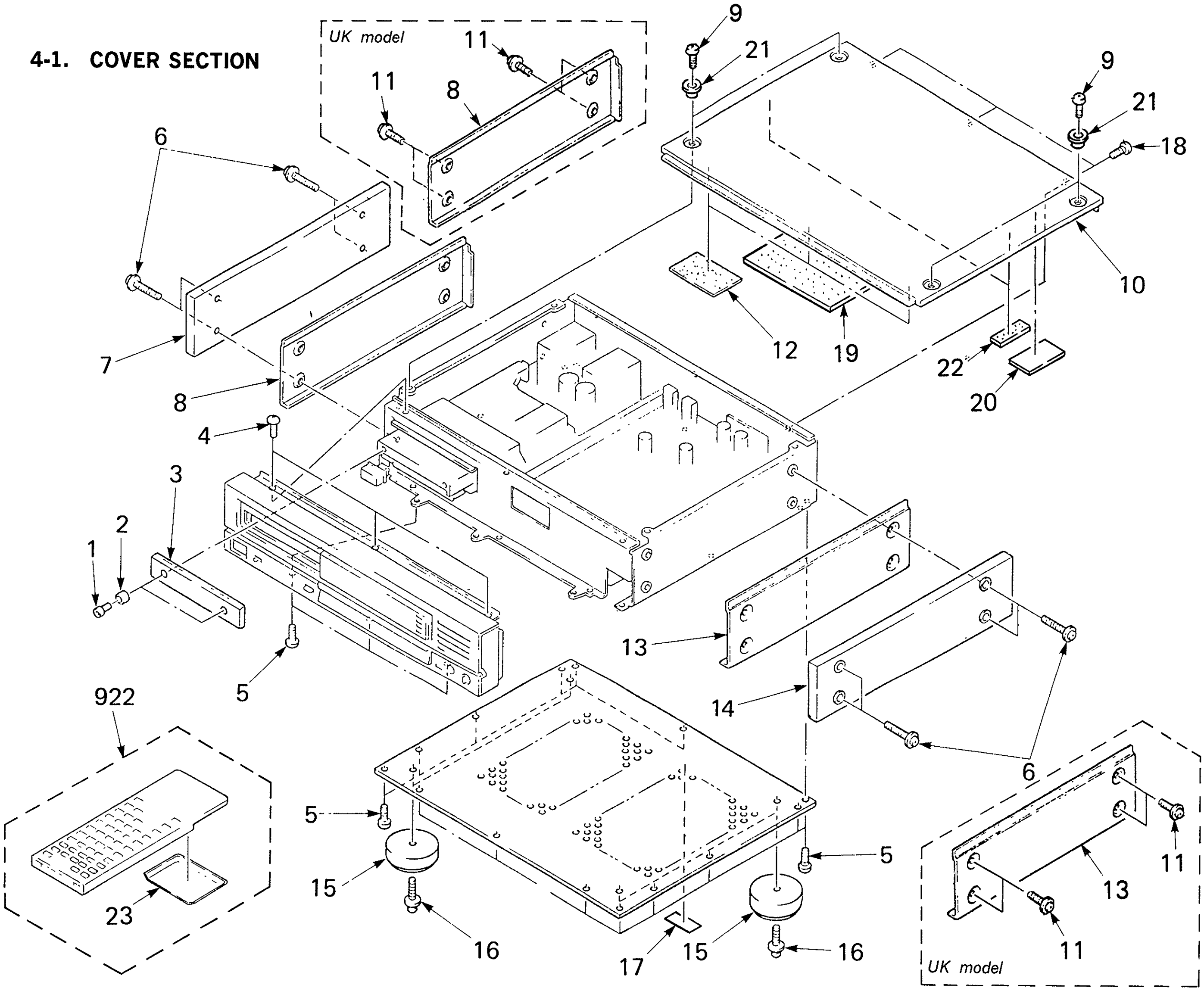
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color
- CND: Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

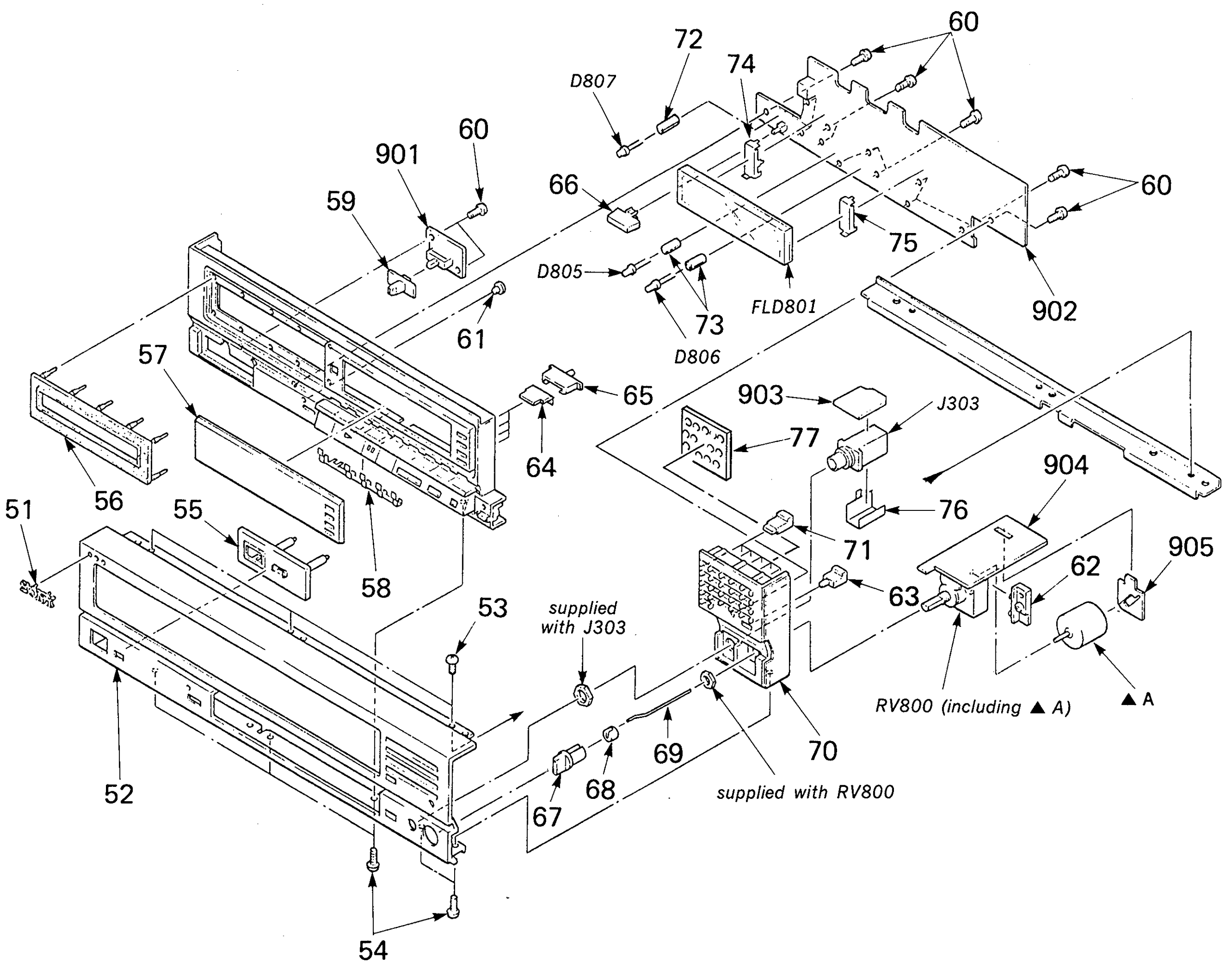
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

4-1. COVER SECTION



Ref.No	Part No.	Description	Remarks
1	7-621-996-05	BOLT, HEXAGON SOCKET 2.6X5	
2	4-884-635-00	BASE, ORNAMENTAL	
3	X-4922-551-1	(CND, AEP, UK)....PANEL ASSY, LOADING	
3	X-4922-554-1	(US, E)....PANEL ASSY, LOADING	
4	4-929-073-01	SCREW (3X8)	
5	3-703-685-21	SCREW (+BV 3X8)	
6	4-885-979-11	(US, CND, AEP, E)....SCREW (4X25)	
7	X-4922-574-2	(AEP)....BOARD (LEFT) ASSY, SIDE	
7	X-4928-001-1	(US, CND, E)....PLATE (LEFT) ASSY, SIDE	
8	★4-925-368-01	CASE (LEFT)	
9	4-924-242-11	SCREW (M3X6), FLAT HEAD	
10	4-925-367-01	CASE (TOP PLATE)	
11	4-847-802-00	(UK)....SCREW	
12	★4-923-563-01	CUSHION	
13	★4-925-369-01	CASE (RIGHT)	
14	X-4922-575-2	(AEP)....BOARD (RIGHT) ASSY, SIDE	
14	X-4928-002-1	(US, CND, E)....PLATE (RIGHT) ASSY, SIDE	
15	X-4922-549-1	FOOT ASSY	
16	7-682-664-09	SCREW +PSW 4X14	
17	★3-703-079-21	(UK)....LABEL, CAUTION (BACK)	
18	4-886-821-21	SCREW, M3 CASE STOPPER	
19	★4-913-189-11	FELT (B), ACOUSTIC ABSORBENT	
20	★4-923-557-01	DUMPER	
21	4-928-025-11	ESCUTCHEON (TOP PLATE)	
22	★4-929-017-01	CUSHION	
23	4-928-079-01	COVER, BATTERY	
922	1-465-047-11	REMOTE COMMANDER (RM-D670)	23

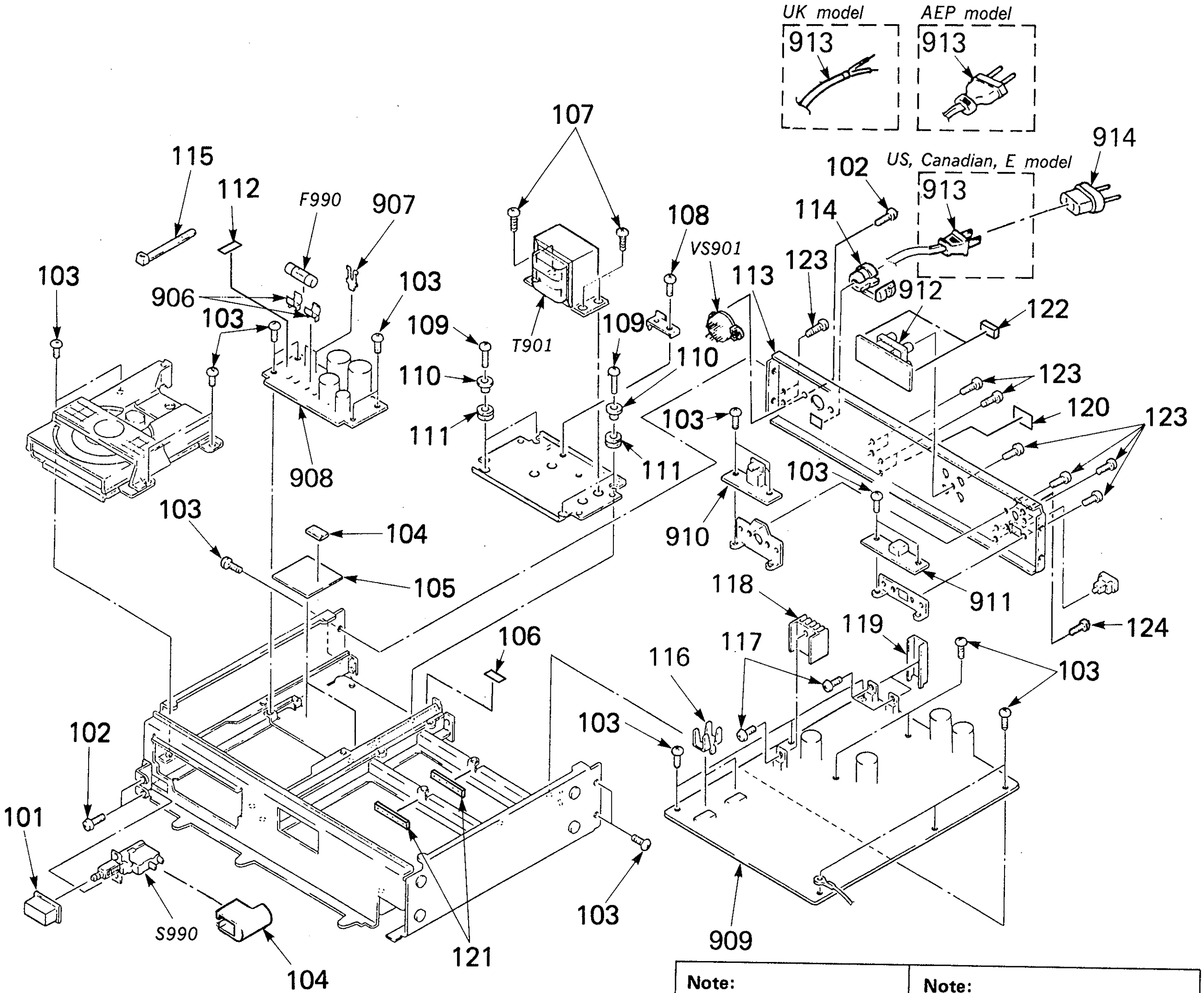
4-2. FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks
51	4-908-848-01	EMBLEM, SONY	
52	4-925-353-01	PANEL, FRONT	
53	7-685-870-01	SCREW +BVTT 3X5 (S)	
54	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
55	*4-925-374-01	ESCUTCHEON (POWER SWITCH)	
56	4-925-375-01	PACKING (LOADING)	
57	4-925-373-01	PLATE, INDICATION	
58	4-925-384-01	PLATE (BUTTON), GROUND	
59	4-922-518-11	KNOB (TIMER)	
60	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
61	4-925-327-01	INDICATOR	
62	*4-922-980-01	HOLDER (LED)	
63	4-925-383-01	BUTTON (DIAPLAY)	
64	4-925-381-01	BUTTON (MODE)	
65	4-925-382-01	BUTTON (MODE HOLDER)	
66	4-925-326-01	BUTTON (D/A)	
67	4-922-977-01	KNOB (HP)	
68	4-922-978-01	HOLDER (FIBER)	
69	4-922-979-01	INDICATOR	
70	*4-925-355-01	BASE (RIGHT), PANEL	

Ref.No	Part No.	Description	Remarks
71	4-927-604-01	BUTTON (MC)	
72	*4-923-532-31	SPACER, LED	
73	*4-923-532-21	SPACER, LED	
74	*4-922-524-01	HOLDER (LEFT)	
75	*4-922-523-01	HOLDER (RIGHT)	
76	4-925-366-01	PLATE (HP), GROUND	
77	*4-929-021-01	CUSHION (20 KEY)	
901	*1-629-023-11	PC BOARD, TIMER	
902	*A-4655-076-A	MOUNTED PCB, DISPLAY	
903	*1-629-022-11	PC BOARD, HEADPHONE	
904	*1-629-024-11	PC BOARD, REMOCON VR	
905	*1-629-025-11	PC BOARD, REMOCON MO	
D805	8-719-907-81	DIODE 5P-4M	
D806	8-719-907-75	DIODE AA5534S	
D807	8-719-971-70	DIODE BR3867S	
FLD801	1-519-476-11	INDICATOR TUBE, FLUORESCENT	
J303	1-507-796-61	JACK, LARGE TYPE (PHONES)	
RV800	1-238-315-21	RES, VAR, CARBON 10K/10K (LINE OUT) (Including VOL MOTOR)	

4-3. CHASSIS SECTION



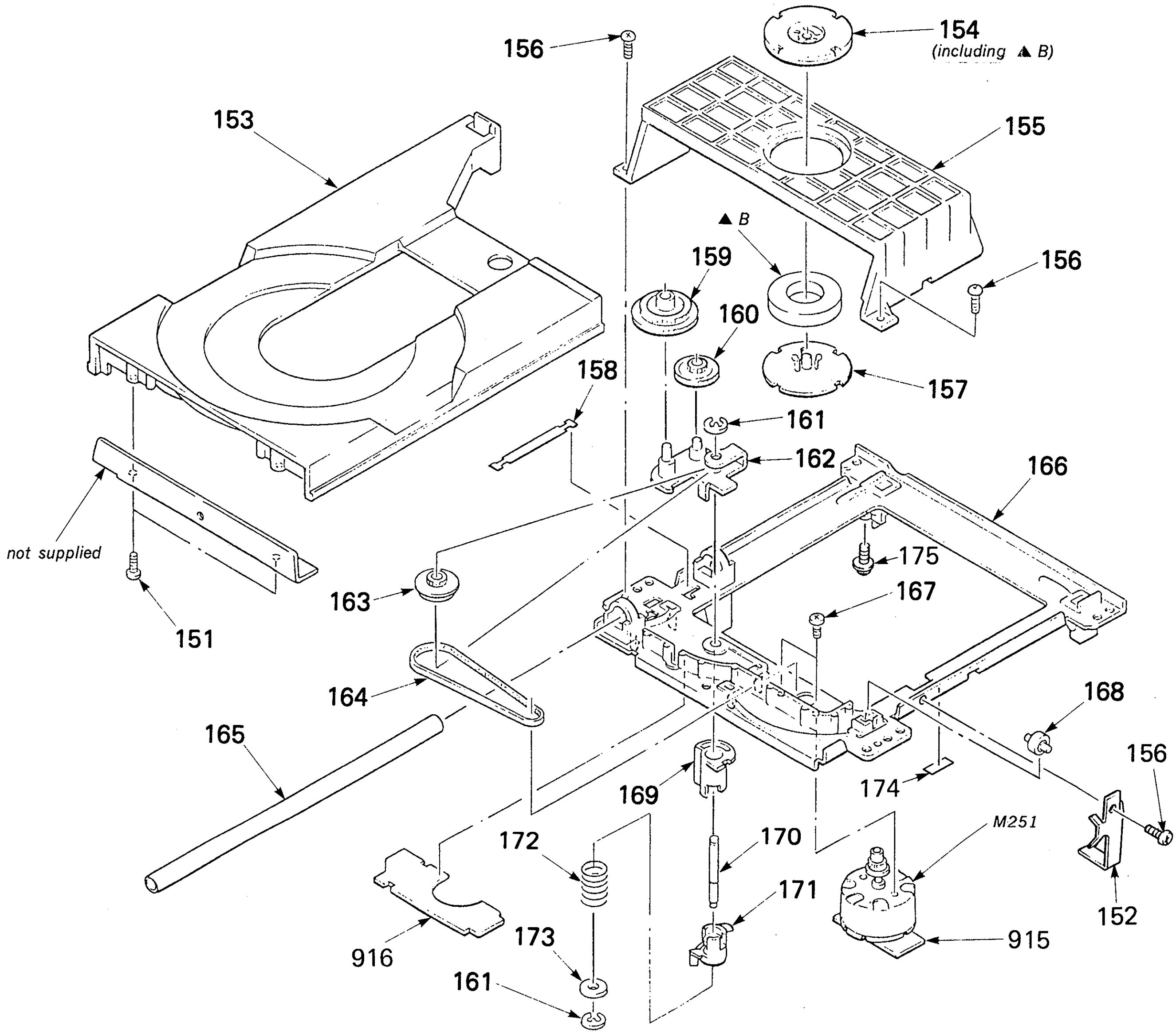
Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
101	4-923-520-01	KNOB, POWER	
102	7-682-547-09	SCREW +B 3X6	
103	4-929-073-01	SCREW (3X8)	
104	3-575-524-00	COVER, POWER SWITCH	
105	*4-925-394-01	SHEET, INSULATING	
106	3-831-441-XX	CUSHION (B), CABINET	
107	7-682-560-04	SCREW +BVTT 4X6 (S)	
108	7-682-547-04	SCREW +BVTT 3X6 (S)	
109	7-685-873-09	SCREW +BVTT 3X10 (S)	
110	4-928-032-01	COLLAR (A)	
111	*4-888-798-00	BUSHING, RUBBER	
112	3-701-948-10	(AEP, UK)....LABEL (T400MA), FUSE	
112	*3-701-947-08	(E)....LABEL (T500MA), FUSE	
113	*4-925-361-12	(US)....PANEL, BACK	
113	*4-925-361-22	(CND)....PANEL, BACK	
113	*4-925-361-32	(AEP)....PANEL, BACK	
113	*4-925-361-42	(UK)....PANEL, BACK	
113	*4-925-361-52	(E)....PANEL, BACK	
114	2-231-019-00	CLAMPER, CORD	
115	3-655-653-21	BAND (TAITON), BINDING	
116	*4-922-525-01	HEAT SINK	
117	7-682-147-15	SCREW, TR	
118	*4-363-146-00	HEAT SINK, V.OUT	
119	*3-309-144-01	HEAT SINK	
120	*4-885-838-00	(AEP, UK, E)....LABEL, CLASS 1	

Ref.No	Part No.	Description	Remarks
121	*4-929-013-01	ABSORBENT, VIBRATION	
122	*4-929-018-01	ABSORBENT, VIBRATION	
123	4-929-074-01	SCREW (3X8)	
124	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
906	1-533-183-11	HOLDER, FUSE	
907	*1-535-688-11	TERMINAL	
908	*1-629-020-11	PC BOARD, POWER	
909	*A-4651-225-A	MOUNTED PCB, MAIN	
910	*1-629-017-11	PC BOARD, COAXIAL	
911	*1-629-016-11	PC BOARD, OPTICAL	
912	*1-629-019-11	PC BOARD, LINE OUT	
913	⚠1-555-386-00	(E)....CORD, POWER	
913	⚠1-555-795-00	(AEP)....COAD, POWER	
913	⚠1-556-035-00	(UK)....COAD, POWER	
913	⚠1-557-577-11	(US, CND)....COAD, POWER	
914	1-526-565-00	(E)....AC PLUG ADAPTOR	
F990	⚠1-532-066-11	(AEP, UK)....FUSE, TIME-LAG T0.4A	
F990	⚠1-532-279-00	(E)....FUSE, TIME-LAG T0.5A	
F990	⚠1-532-741-11	(US, CND)....FUSE, GLASS TUBE 1.25A 125V	
S990	⚠1-570-156-11	SWITCH, PUSH (AC POWER)(1 KEY)(POWER)	
T901	⚠1-449-631-11	(E)....TRANSFORMER, POWER	
T901	⚠1-449-632-11	(US,CND)....TRANSFORMER, POWER	
T901	⚠1-449-633-11	(AEP, UK)....TRANSFORMER, POWER	
VS901	⚠1-526-576-51	(E)....SELECTOR, POWER VOLTAGE	

REVISED

4-4. MECHANISM SECTION (CDM11A-6B)

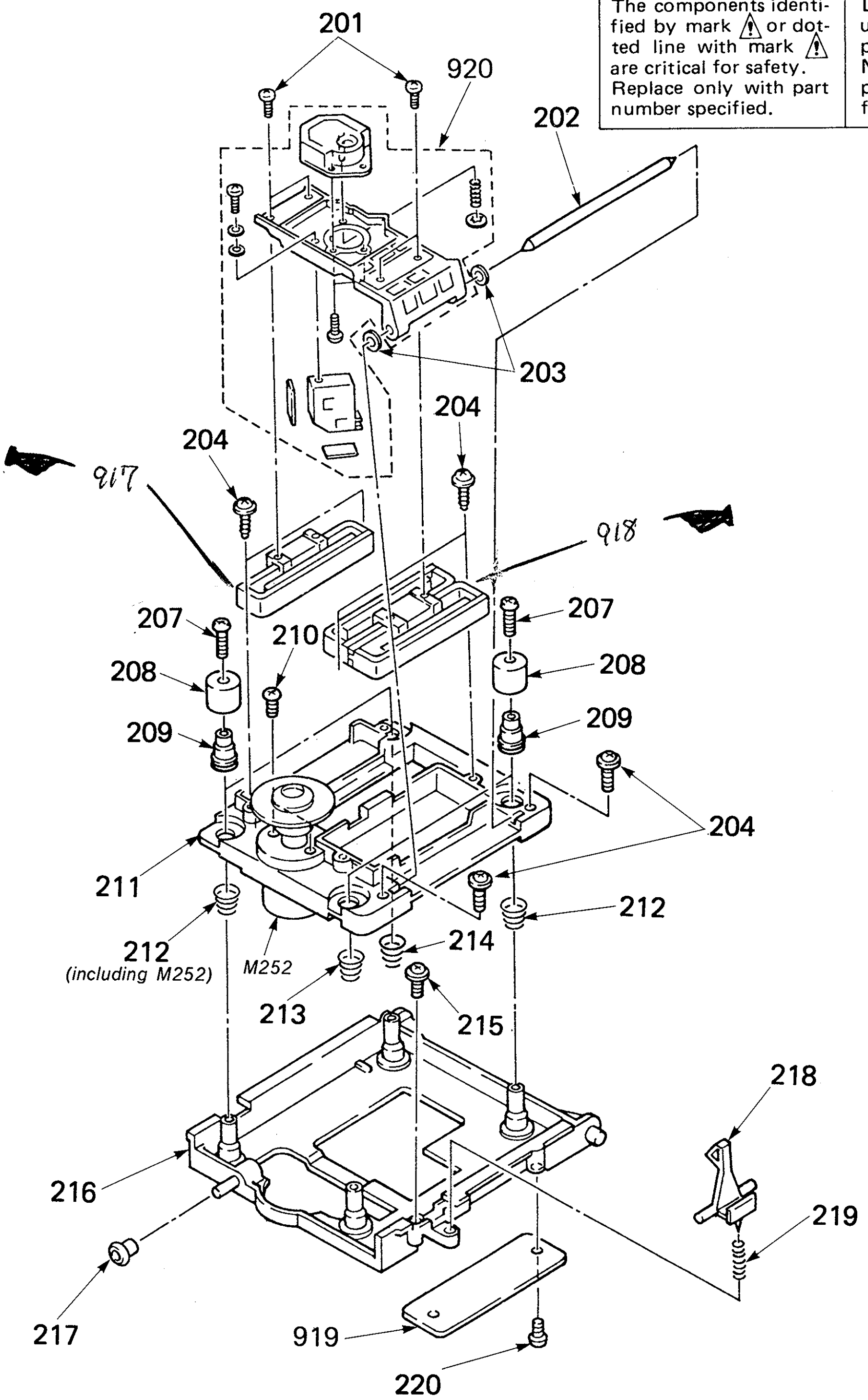


Ref.No	Part No.	Description	Remarks
151	7-685-647-79	SCREW +P 3X10 TYPE2 SLIT	
152	*4-927-655-01	LIMITER	
153	*4-927-642-01	TABLE (EXL), DISK	
154	A-4665-024-A	MAGNET ASSY	
155	*4-927-638-03	HOLDER (A,P)	
156	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
157	*4-918-679-04	PULLEY, PRESS	
158	*4-927-648-01	SLIDER (GROUND)	
159	4-927-620-01	GEAR (P)	
160	4-927-628-01	GEAR (C)	
161	7-624-105-04	STOP RING 2.3, TYPE -E	
162	X-4927-608-1	ARM ASSY, SWING	
163	4-929-724-01	PULLEY (B)	
164	4-927-649-01	BELT	
165	4-927-617-01	BAR, GUIDE	
166	*4-927-641-04	CHASSIS (OUTSERT), MECHANICAL	
167	7-621-775-08	SCREW +P 2.6X3	
168	4-927-627-01	ROLLER (S,G)	
169	4-927-624-01	CAM (L,A)	
170	4-927-665-01	SHAFT (S)	
171	4-927-635-01	CAM (L,B)	
172	3-659-338-00	SPRING, COMPRESSION	
173	4-927-654-01	WASHER (LIMITER)	
174	3-831-441-XX	CUSHION	
175	*4-917-583-21	BRACKET, YOKE	
915	*1-629-359-11	PC BOARD, L.MOTOR	
916	*1-629-360-11	PC BOARD, SWITCH	
M251	A-4608-362-A	MOTOR (L) ASSY (LOADING)	

REVISED

4-5. OPTICAL PICK-UP BLOCK SECTION (BU-6B)

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



Ref.No	Part No.	Description	Remarks
201	3-318-203-61	SCREW (B1.7X4), TAPPING	
202	*4-910-431-01	SHAFT, SLIDE	
203	*4-917-582-01	CUSHION, SLIDE	
204	7-685-646-79	SCREW, TAPPING	
205	———	deletion ———	
206	———	deletion ———	
207	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
208	4-927-634-01	HOLDER (SP)	
209	4-917-562-01	INSULATOR	
210	7-621-255-25	SCREW +P2X4	
211	X-4927-605-3	M. BASE ASSY(Including M252)	
212	4-917-572-01	SPRING (B)	
213	4-917-571-01	SPRING (A)	

Ref.No	Part No.	Description	Remarks
214	4-917-573-01	SPRING (E)	
215	7-685-132-19	+ PTPWH (2.6X5)	
216	*4-927-637-01	HOLDER (BU-6)	
217	4-927-631-01	ROLLER (L)	
218	4-927-626-01	LEVER (L)	
219	3-305-423-00	SPRING, COMPRESSION	
220	7-621-773-86	SCREW +BVTT 2.6X4 (S)	
917	A-4638-084-A	SENSOR ASSY, SPEED	
918	A-4608-335-A	MOTOR ASSY, LINEAR	
919	*1-628-390-11	PC BOARD, TRANSLATION	
920	⚠8-848-047-01	PICK UP, OPTICS (KSS-151A)	
921	———	deletion ———	

REVISED

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

- CND: Canadian model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			
901	*1-629-023-11	PC BOARD, TIMER			
902	*A-4655-076-A	MOUNTED PCB, DISPLAY			
903	*1-629-022-11	PC BOARD, HEADPHONE			
904	*1-629-024-11	PC BOARD, REMOCON VR			
905	*1-629-025-11	PC BOARD, REMOCON MO			
906	1-533-183-11	HOLDER, FUSE			
907	*1-535-688-11	TERMINAL			
908	*1-629-020-11	PC BOARD, POWER			
909	*A-4651-225-A	MOUNTED PCB, MAIN			
910	*1-629-017-11	PC BOARD, COAXIAL			
911	*1-629-016-11	PC BOARD, OPTICAL			
912	*1-629-019-11	PC BOARD, LINE OUT			
913	⚠1-555-386-00	(E)....CORD, POWER			
913	⚠1-555-795-00	(AEP)....COAD, POWER			
913	⚠1-556-035-00	(UK)....COAD, POWER			
913	⚠1-557-577-11	(US, CND)....COAD, POWER			
914	1-526-565-00	(E)....AC PLUG ADAPTOR			
915	*1-629-359-11	PC BOARD, L.MOTOR			
916	*1-629-360-11	PC BOARD, SWITCH			
917	A-4638-084-A	SENSOR ASSY, SPEED			
918	A-4608-335-A	MOTOR ASSY, LINEAR			
919	*1-628-390-11	PC BOARD, TRANSLATION			
920	⚠8-848-047-01	PICK UP, OPTICS (KSS-151A)			
921		——— deletion ———			
922	1-465-047-11	REMOTE COMMANDER (RM-D670)			
BUS351	*1-560-242-21	BUS BAR 4P			
BUS352	*1-560-242-31	BUS BAR 5P			
BUS353	*1-560-242-31	BUS BAR 5P			
BUS354	*1-566-959-11	BAR, BUS			
BUS900	*1-560-242-21	BUS BAR 4P			
		CAPACITOR			
C101	1-164-088-11	CERAMIC	0.001MF		50V
C102	1-124-443-00	ELECT	100MF	20%	6.3V
C105	1-162-198-31	CERAMIC	8.2PF	10%	50V
C106	1-164-159-11	CERAMIC	0.1MF		50V
C107	1-130-477-00	MYLAR	0.0033MF	5%	50V
C108	1-136-159-00	FILM	0.033MF	5%	50V
C109	1-164-159-11	CERAMIC	0.1MF		50V
C110	1-126-233-11	ELECT	22MF	20%	25V
C111	1-136-153-00	FILM	0.01MF	5%	50V
C112	1-136-153-00	FILM	0.01MF	5%	50V
C113	1-126-233-11	ELECT	22MF	20%	25V
C114	1-164-159-11	CERAMIC	0.1MF		50V
C115	1-161-375-00	CERAMIC	0.0022MF	30%	16V
C116	1-130-480-00	MYLAR	0.0056MF	5%	50V
C117	1-124-902-00	ELECT	0.47MF	20%	50V
C200	1-161-379-00	CERAMIC	0.01MF	20%	16V
C201	1-123-333-00	ELECT	100MF	20%	16V
C202	1-123-333-00	ELECT	100MF	20%	16V
C203	1-164-159-11	CERAMIC	0.1MF		50V
C204	1-164-159-11	CERAMIC	0.1MF		50V
C205	1-162-294-31	CERAMIC	0.001MF	10%	50V
C206	1-162-294-31	CERAMIC	0.001MF	10%	50V
C207	1-164-159-11	CERAMIC	0.1MF		50V

Ref.No	Part No.	Description			
C208	1-136-155-00	FILM	0.015MF	5%	50V
C209	1-136-161-00	FILM	0.047MF	5%	50V
C210	1-164-159-11	CERAMIC	0.1MF		50V
C211	1-164-159-11	CERAMIC	0.1MF		50V
C212	1-123-333-00	ELECT	100MF	20%	16V
C213	1-123-333-00	ELECT	100MF	20%	16V
C215	1-126-233-11	ELECT	22MF	20%	25V
C216	1-123-382-00	ELECT	3.3MF	20%	50V
C217	1-136-165-00	FILM	0.1MF	5%	50V
C218	1-123-382-00	ELECT	3.3MF	20%	50V
C219	1-136-159-00	FILM	0.033MF	5%	50V
C220	1-136-165-00	FILM	0.1MF	5%	50V
C221	1-106-359-00	MYLAR	0.0047MF	5%	50V
C222	1-124-499-11	ELECT	1MF	20%	50V
C223	1-124-927-11	ELECT	4.7MF	20%	50V
C224	1-126-233-11	ELECT	22MF	20%	25V
C225	1-162-294-31	CERAMIC	0.001MF	10%	50V
C226	1-162-282-31	CERAMIC	100PF	10%	50V
C227	1-126-233-11	ELECT	22MF	20%	25V
C228	1-130-472-00	MYLAR	0.0012MF	5%	50V
C229	1-164-159-11	CERAMIC	0.1MF		50V
C230	1-106-359-00	MYLAR	0.0047MF	5%	50V
C231	1-126-233-11	ELECT	22MF	20%	25V
C232	1-164-159-11	CERAMIC	0.1MF		50V
C233	1-164-159-11	CERAMIC	0.1MF		50V
C234	1-164-159-11	CERAMIC	0.1MF		50V
C251	1-136-157-00	FILM	0.022MF	5%	50V
C252	1-136-157-00	FILM	0.022MF	5%	50V
C302	1-126-233-11	ELECT	22MF	20%	25V
C303	1-161-379-00	CERAMIC	0.01MF	20%	16V
C304	1-124-902-00	ELECT	0.47MF	20%	50V
C305	1-136-159-00	FILM	0.033MF	5%	50V
C306	1-136-173-00	FILM	0.47MF	5%	50V
C307	1-164-159-11	CERAMIC	0.1MF		50V
C308	1-164-159-11	CERAMIC	0.1MF		50V
C309	1-164-159-11	CERAMIC	0.1MF		50V
C321	1-164-159-11	CERAMIC	0.1MF		50V
C350	1-164-159-11	(AEP, UK, E).... CERAMIC	0.1MF		50V
C358	1-130-483-00	MYLAR	0.01MF	5%	50V
C359	1-130-483-00	MYLAR	0.01MF	5%	50V
C360	1-136-165-00	FILM	0.1MF	5%	50V
C361	1-124-119-00	ELECT	330MF	20%	16V
C362	1-136-920-00	FILM	0.1MF	5%	50V
C363	1-136-920-00	FILM	0.1MF	5%	50V
C364	1-136-165-00	FILM	0.1MF	5%	50V
C365	1-164-159-11	CERAMIC	0.1MF		50V
C366	1-123-382-00	ELECT	33MF	20%	50V
C367	1-136-165-00	FILM	0.1MF	5%	50V
C368	1-102-950-00	CERAMIC	13PF	5%	50V
C369	1-102-950-00	CERAMIC	13PF	5%	50V
C370	1-124-517-11	ELECT	470MF	20%	50V
C371	1-106-359-00	MYLAR	0.0047MF	5%	50V
C372	1-136-920-00	FILM	0.1MF	5%	50V
C373	1-136-920-00	FILM	0.1MF	5%	50V

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			
C374	1-136-920-00	FILM	0.1MF	5%	50V
C375	1-136-920-00	FILM	0.1MF	5%	50V
C380	1-124-130-00	ELECT	100MF	20%	63V
C381	1-124-130-00	ELECT	100MF	20%	63V
C382	1-130-483-00	MYLAR	0.01MF	5%	50V
C390	1-123-380-00	ELECT	1MF	20%	50V
C392	1-162-279-31	CERAMIC	75PF	10%	50V
C401	1-123-380-00	ELECT	1MF	20%	50V
C402	1-123-357-00	ELECT	22MF	20%	50V
C403	1-126-059-11	ELECT	10MF	20%	50V
C404	1-126-059-11	ELECT	10MF	20%	50V
C405	1-130-491-00	MYLAR	0.047MF	5%	50V
C406	1-136-854-00	FILM	0.001MF	2%	100V
C407	1-136-870-00	FILM	0.0047MF	2%	100V
C408	1-136-856-00	FILM	0.0012MF	2%	100V
C409	1-124-572-11	ELECT	100MF	20%	50V
C410	1-136-580-11	FILM	0.47MF	10%	200V
C413A	1-130-491-00	MYLAR	0.047MF	5%	50V
C413B	1-162-290-31	(AEP, UK, E).... CERAMIC	470PF	10%	50V
C414	1-130-477-00	MYLAR	0.0033MF	5%	50V
C415	1-130-477-00	MYLAR	0.0033MF	5%	50V
C430	1-124-130-00	ELECT	100MF	20%	63V
C501	1-123-380-00	ELECT	1MF	20%	50V
C502	1-123-357-00	ELECT	22MF	20%	50V
C503	1-126-059-11	ELECT	10MF	20%	50V
C504	1-126-059-11	ELECT	10MF	20%	50V
C505	1-130-491-00	MYLAR	0.047MF	5%	50V
C506	1-136-854-00	FILM	0.001MF	2%	100V
C507	1-136-870-00	FILM	0.0047MF	2%	100V
C508	1-136-856-00	FILM	0.0012MF	2%	100V
C509	1-124-572-11	ELECT	100MF	20%	50V
C510	1-136-580-11	FILM	0.47MF	10%	200V
C513A	1-130-491-00	MYLAR	0.047MF	5%	50V
C513B	1-162-290-31	(AEP, UK, E).... CERAMIC	470PF	10%	50V
C514	1-130-477-00	MYLAR	0.0033MF	5%	50V
C515	1-130-477-00	MYLAR	0.0033MF	5%	50V
C530	1-124-130-00	ELECT	100MF	20%	63V
C800	1-164-159-11	CERAMIC	0.1MF		50V
C801	1-164-159-11	CERAMIC	0.1MF		50V
C802	1-124-584-00	ELECT	100MF	20%	10V
C803	1-164-159-11	CERAMIC	0.1MF		50V
C804	1-164-159-11	CERAMIC	0.1MF		50V
C805	1-164-159-11	CERAMIC	0.1MF		50V
C806	1-124-477-11	ELECT	47MF	20%	25V
C807	1-164-159-11	CERAMIC	0.1MF		50V
C809	1-126-233-11	ELECT	22MF	20%	50V
C810	1-124-611-00	ELECT	1MF	20%	50V
C811	1-124-443-00	ELECT	100MF	20%	10V
C900	1-102-950-00	CERAMIC	13PF	5%	50V
C901	1-124-713-11	ELECT	470MF	20%	35V
C902	1-124-713-11	ELECT	470MF	20%	35V
C903	1-124-130-00	ELECT	100MF	20%	63V
C904	1-124-130-00	ELECT	100MF	20%	63V
C905	1-126-170-11	ELECT	1000MF	20%	50V
C906	1-126-170-11	ELECT	1000MF	20%	50V
C909	1-102-950-00	CERAMIC	13PF	5%	50V
C910	1-123-382-00	ELECT	33MF	20%	50V
C911	1-123-380-00	ELECT	1MF	20%	50V
C920	1-126-129-11	ELECT	6800MF	20%	35V
C921	1-126-129-11	ELECT	6800MF	20%	35V
C922	1-136-177-00	FILM	1MF	5%	50V
C923	1-130-483-00	MYLAR	0.01MF	5%	50V
C924	1-130-483-00	MYLAR	0.01MF	5%	50V
C925	1-130-483-00	MYLAR	0.01MF	5%	50V

Ref.No	Part No.	Description			
C926	1-130-483-00	MYLAR	0.01MF	5%	50V
C951	1-124-360-00	ELECT	1000MF	20%	16V
C952	1-124-360-00	ELECT	1000MF	20%	16V
C953	1-124-556-11	ELECT	2200MF	20%	16V
C954	1-126-103-11	ELECT	470MF	20%	16V
C955	1-126-244-51	ELECT	47000MF		5.5V
C956	1-124-902-00	ELECT	0.47MF	20%	50V
C957	1-124-927-11	ELECT	4.7MF	20%	50V
C958	1-136-177-00	FILM	1MF	5%	50V
C960	1-124-910-11	ELECT	47MF	20%	50V
C972	1-126-017-11	ELECT	6800MF	20%	16V
C973	1-124-898-11	ELECT	4700MF	20%	16V
C974	1-130-483-00	MYLAR	0.01MF	5%	50V
C975	1-130-483-00	MYLAR	0.01MF	5%	50V
C976	1-136-177-00	FILM	1MF	5%	50V
C977	1-124-130-00	ELECT	100MF	20%	63V
C978	1-124-484-11	ELECT	220MF	20%	35V
C980	1-130-483-00	MYLAR	0.01MF	5%	50V
C981	1-130-483-00	MYLAR	0.01MF	5%	50V
C989	1-124-484-11	ELECT	220MF	20%	35V
C990	⚠1-162-599-12	CERAMIC	0.0047MF	20%	400V
C991	⚠1-161-744-00	CERAMIC	0.01MF		400V
CN101	*1-564-338-71	PIN, CONNECTOR 4P			
CN110	*1-562-883-11	SOCKET, CONNECTOR 20P			
CN102	*1-564-340-00	PIN, CONNECTOR 6P			
CN110	*1-562-883-11	SOCKET, CONNECTOR 20P			
CN201	*1-564-340-61	PIN, CONNECTOR 6P			
CN203	*1-564-338-00	PIN, CONNECTOR 4P			
CN204	*1-564-338-81	PIN, CONNECTOR 4P			
CN301	*1-564-342-11	PIN, CONNECTOR 8P			
CN302	*1-564-336-00	PIN, CONNECTOR 2P			
CN305	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN306	*1-564-506-11	PLUG, CONNECTOR 3P			
CN381	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN401	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN403	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P			
CN501	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P			
CN802	*1-564-337-00	PIN, CONNECTOR 3P			
CN951	*1-564-341-11	PIN, CONNECTOR 7P			
CNL301	*1-508-829-12	H TYPE BASE POST 2P			
CNL901	*1-535-116-00	TERMINAL 3P			
CNL920	*1-535-119-00	TERMINAL 6P			
CNL921	*1-535-121-00	TERMINAL 8P			
CNL951	*1-535-120-00	TERMINAL 7P			
CNL970	*1-535-115-00	TERMINAL 2P			
CNL990	*1-535-141-00	(US, CND, E)....BASE POST 22MM (10MM PITCH) 4P			
CNL990	*1-535-142-00	(AEP, UK)....BASE POST 22MM (10MM PITCH) 5P			
D101	8-719-107-94	DIODE 1SS202-1			
D301	8-719-107-94	DIODE 1SS202-1			
D801	8-719-971-49	DIODE BR3371X			
D802	8-719-971-52	DIODE MAY3371X			
D803	8-719-970-98	DIODE MPY3371X-117			
D804	8-719-971-50	DIODE MBG3371X			
D805	8-719-907-81	DIODE 5P-4M			
D806	8-719-907-75	DIODE AA5534S			
D807	8-719-971-70	DIODE BR3867S			
D808	8-719-915-91	DIODE HZ8.2E-B3			
D809	8-719-970-49	DIODE BR4361F			
D901	8-719-224-12	DIODE 10YD1.3-A			
D902	8-719-224-12	DIODE 10YD1.3-A			
D903	8-719-114-41	DIODE RD6.2JS-B2			
D904	8-719-114-41	DIODE RD6.2JS-B2			
D910	8-719-109-81	DIODE RD4.7ES-B2			
D921	8-719-230-02	DIODE 31DF2			

Ref.No	Part No.	Description
D922	8-719-230-02	DIODE 31DF2
D923	8-719-230-02	DIODE 31DF2
D924	8-719-230-02	DIODE 31DF2
D951	8-719-107-94	DIODE 1SS202-1
D952	8-719-107-94	DIODE 1SS202-1
D953	8-719-110-78	DIODE RD33ES-B2
D970	8-719-200-82	DIODE 11ES2
D971	8-719-200-82	DIODE 11ES2
D972	8-719-200-82	DIODE 11ES2
D973	8-719-107-94	DIODE 1SS202-1
D974	8-719-107-94	DIODE 1SS202-1
D975	8-719-937-49	DIODE RDF02M
F990	⚠1-532-066-11	(AEP, UK)....FUSE, TIME-LAG T0.4A
F990	⚠1-532-279-00	(E)....FUSE, TIME-LAG T0.5A
F990	⚠1-532-741-11	(US, CND)....FUSE, GLASS TUBE 1.25A 125V
FLD801	1-519-476-11	INDICATOR TUBE, FLUORESCENT
IC101	8-752-034-00	IC CXA1081S
IC201	8-752-035-28	IC CXA1291P
IC202	8-752-035-28	IC CXA1291P
IC204	8-752-032-33	IC CXA1182S
IC302	8-752-325-59	IC CXD1165Q
IC351	8-759-631-47	IC M50747-161SP
IC352	8-759-820-64	IC LC9600R-183
IC353	8-752-328-61	IC CXD1244S
IC354	8-759-978-53	IC CXD8003S
IC355	8-759-202-12	IC TC74HC02P
IC356	8-759-202-13	IC TC74HCU04P
IC357	8-759-202-13	IC TC74HCU04P
IC358	8-759-604-29	IC M5F7805
IC380	8-759-981-85	IC RC4556D
IC390	8-759-977-71	IC GP1F31T
IC401	8-759-979-08	IC PCM58P-J
IC402	8-759-982-03	IC RC5532DD
IC501	8-759-979-08	IC PCM58P-J
IC502	8-759-982-03	IC RC5532DD
IC801	8-752-806-27	IC CXP5058H-162Q
IC802	8-749-920-03	IC GP1U52
IC803	8-759-962-08	IC BA6208
IC901	8-759-604-39	IC M5F78M12
IC951	8-759-604-29	IC M5F7805
IC952	8-759-604-47	IC M5F7905
J301	1-568-101-11	JACK, PIN 4P (LINE OUT)
J302	1-566-922-21	JACK, PIN 1P (DIGITAL OUT COAXIAL)
J303	1-507-796-61	JACK, LARGE TYPE (PHONES)
L350	1-410-509-11	INDUCTOR 10UH
L351	*1-410-858-11	INDUCTOR 0UH
L391	1-421-946-11	TRANSFORMER, PULSE
L801	1-408-080-00	INDUCTOR 100UH
L802	1-408-080-00	INDUCTOR 100UH
M251	A-4608-362-A	MOTOR (L) ASSY (LOADING)
PS970	1-532-675-00	(AEP, UK, E)....LINK, IC
Q101	8-729-140-97	TRANSISTOR 2SB734
Q205	8-729-900-80	TRANSISTOR DTC114ES
Q206	8-729-900-80	TRANSISTOR DTC114ES
Q301	8-729-900-61	TRANSISTOR DTA114ES
Q401	8-729-107-99	TRANSISTOR 2SC3622A-K
Q501	8-729-107-99	TRANSISTOR 2SC3622A-K
Q801	8-729-900-45	TRANSISTOR DTC114EF
Q802	8-729-900-45	TRANSISTOR DTC114EF
Q803	8-729-900-45	TRANSISTOR DTC114EF
Q804	8-729-900-45	TRANSISTOR DTC114EF
Q805	8-729-900-45	TRANSISTOR DTC114EF
Q806	8-729-900-45	TRANSISTOR DTC114EF
Q807	8-729-900-45	TRANSISTOR DTC114EF
Q808	8-729-967-32	TRANSISTOR 2SC2673
Q901	8-729-167-62	TRANSISTOR 2SC2676
Q902	8-729-113-82	TRANSISTOR 2SA1138-F
Q903	8-729-107-53	TRANSISTOR 2SC2275-A
Q904	8-729-190-53	TRANSISTOR 2SA985-P
Q905	8-729-113-82	TRANSISTOR 2SA1138-F
Q906	8-729-167-62	TRANSISTOR 2SC2676
Q907	8-729-167-62	TRANSISTOR 2SC2676
Q908	8-729-113-82	TRANSISTOR 2SA1138-F
Q910	8-729-900-80	TRANSISTOR DTC114ES
Q951	8-729-140-97	TRANSISTOR 2SB734

RESISTOR

Ref.No	Part No.	Description			
R101	1-247-806-11	CARBON	91	5%	1/4W
R102	1-249-512-11	CARBON	22	5%	1/4W
R103	1-249-417-11	CARBON	1K	5%	1/4W
R104	1-249-433-11	CARBON	22K	5%	1/4W
R105	1-249-421-11	CARBON	2.2K	5%	1/4W
R106	1-249-428-11	CARBON	8.2K	5%	1/4W
R107	1-247-860-11	CARBON	16K	5%	1/4W
R108	1-249-425-11	CARBON	4.7K	5%	1/4W
R109	1-249-425-11	CARBON	4.7K	5%	1/4W
R110	1-249-432-11	CARBON	18K	5%	1/4W
R111	1-249-432-11	CARBON	18K	5%	1/4W
R112	1-249-441-11	CARBON	100K	5%	1/4W
R201	1-249-393-11	CARBON	10	5%	1/4W
R203	1-249-393-11	CARBON	10	5%	1/4W
R205	1-249-441-11	CARBON	100K	5%	1/4W
R206	1-247-881-00	CARBON	120K	5%	1/4W
R208	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-247-881-00	CARBON	120K	5%	1/4W
R211	1-249-437-11	CARBON	47K	5%	1/4W
R212	1-249-435-11	CARBON	33K	5%	1/4W
R214	1-247-846-11	CARBON	4.3K	5%	1/4W
R216	1-249-393-11	CARBON	10	5%	1/4W
R217	1-247-899-11	CARBON	680K	5%	1/4W
R218	1-249-441-11	CARBON	100K	5%	1/4W
R219	1-249-424-11	CARBON	3.9K	5%	1/4W
R222	1-247-882-11	CARBON	130K	5%	1/4W
R223	1-249-393-11	CARBON	10	5%	1/4W
R224	1-249-393-11	CARBON	10	5%	1/4W
R228	1-247-896-11	CARBON	510K	5%	1/4W
R229	1-249-431-11	CARBON	15K	5%	1/4W
R230	1-249-440-11	CARBON	82K	5%	1/4W
R231	1-249-440-11	CARBON	82K	5%	1/4W
R232	1-249-429-11	CARBON	10K	5%	1/4W
R233	1-249-414-11	CARBON	560	5%	1/4W
R234	1-249-441-11	CARBON	100K	5%	1/4W
R235	1-215-434-00	METAL	3.6K	1%	1/6W
R236	1-249-433-11	CARBON	22K	5%	1/4W
R237	1-249-441-11	CARBON	100K	5%	1/4W
R238	1-249-417-11	CARBON	1K	5%	1/4W
R239	1-249-417-11	CARBON	1K	5%	1/4W
R240	1-249-417-11	CARBON	1K	5%	1/4W
R241	1-249-417-11	CARBON	1K	5%	1/4W
R243	1-247-854-11	CARBON	9.1K	5%	1/4W
R244	1-247-854-11	CARBON	9.1K	5%	1/4W
R301	1-247-903-00	CARBON	1M	5%	1/4W
R303	1-215-469-00	METAL	100K	1%	1/6W
R304	1-215-469-00	METAL	100K	1%	1/6W
R305	1-249-429-11	CARBON	10K	5%	1/4W
R306	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-429-11	CARBON	10K	5%	1/4W

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description			
R308	1-249-417-11	CARBON	1K	5%	1/4W
R309	1-249-433-11	CARBON	22K	5%	1/4W
R310	1-247-903-00	CARBON	1M	5%	1/4W
R311	1-249-429-11	CARBON	10K	5%	1/4W
R312	1-249-429-11	CARBON	10K	5%	1/4W
R313	1-249-429-11	CARBON	10K	5%	1/4W
R314	1-249-429-11	CARBON	10K	5%	1/4W
R315	1-249-429-11	CARBON	10K	5%	1/4W
R316	1-249-429-11	CARBON	10K	5%	1/4W
R317	1-249-429-11	CARBON	10K	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-249-429-11	CARBON	10K	5%	1/4W
R320	1-249-429-11	CARBON	10K	5%	1/4W
R321	1-249-429-11	CARBON	10K	5%	1/4W
R322	1-249-429-11	CARBON	10K	5%	1/4W
R323	1-249-429-11	CARBON	10K	5%	1/4W
R350	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-249-417-11	CARBON	1K	5%	1/4W
R352	1-249-417-11	CARBON	1K	5%	1/4W
R353	1-249-417-11	CARBON	1K	5%	1/4W
R354	1-249-414-11	CARBON	560	5%	1/4W
R355	1-249-417-11	CARBON	1K	5%	1/4W
R356	1-249-417-11	CARBON	1K	5%	1/4W
R357	1-249-417-11	CARBON	1K	5%	1/4W
R359	1-249-414-11	CARBON	560	5%	1/4W
R360	1-249-417-11	CARBON	1K	5%	1/4W
R361	1-249-417-11	CARBON	1K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
R363	1-249-411-11	CARBON	330	5%	1/4W
R364	1-249-437-11	CARBON	47K	5%	1/4W
R365	1-247-891-00	CARBON	330K	5%	1/4W
R366	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-417-11	CARBON	1K	5%	1/4W
R368	1-249-417-11	CARBON	1K	5%	1/4W
R369	1-249-417-11	CARBON	1K	5%	1/4W
R370	1-249-417-11	CARBON	1K	5%	1/4W
R371	1-249-417-11	CARBON	1K	5%	1/4W
R372	1-249-417-11	CARBON	1K	5%	1/4W
R373	1-214-937-00	CARBON	1M	5%	1/2W
R374	1-249-409-11	CARBON	220	5%	1/4W
R375	1-249-401-11	CARBON	47	5%	1/4W
R376	1-249-401-11	CARBON	47	5%	1/4W
R377	1-249-411-11	CARBON	330	5%	1/4W
R378	1-249-411-11	CARBON	330	5%	1/4W
R379	1-249-411-11	CARBON	330	5%	1/4W
R380	1-249-411-11	CARBON	330	5%	1/4W
R381	1-249-411-11	CARBON	330	5%	1/4W
R382	1-249-411-11	CARBON	330	5%	1/4W
R385	1-249-526-11	CARBON	82	5%	1/4W
R386	1-249-526-11	CARBON	82	5%	1/4W
R387	1-249-441-11	CARBON	100K	5%	1/4W
R388	1-249-409-11	CARBON	220	5%	1/4W
R390	1-249-405-11	CARBON	100	5%	1/4W
R391	1-247-804-11	CARBON	75	5%	1/4W
R392	1-249-410-11	CARBON	270	5%	1/4W
R401	1-249-815-11	CARBON	3.6K	1%	1/2W
R402	1-249-556-11	CARBON	1.5K	5%	1/4W
R403	1-249-556-11	CARBON	1.5K	5%	1/4W
R404	1-247-700-11	CARBON	100	5%	1/4W
R405	1-247-891-00	CARBON	330K	5%	1/4W
R410	1-247-700-11	CARBON	100	5%	1/4W
R411	1-249-466-11	CARBON	56K	5%	1/4W
R412	1-249-460-11	CARBON	15K	5%	1/4W
R413	1-249-460-11	CARBON	15K	5%	1/4W
R414	1-249-421-11	CARBON	2.2K	5%	1/4W

Ref.No	Part No.	Description			
R420	1-247-700-11	CARBON	100	5%	1/4W
R501	1-249-815-11	CARBON	3.6K	1%	1/2W
R502	1-249-556-11	CARBON	1.5K	5%	1/4W
R503	1-249-556-11	CARBON	1.5K	5%	1/4W
R504	1-247-700-11	CARBON	100	5%	1/4W
R505	1-247-891-00	CARBON	330K	5%	1/4W
R510	1-247-700-11	CARBON	100	5%	1/4W
R511	1-249-466-11	CARBON	56K	5%	1/4W
R512	1-249-460-11	CARBON	15K	5%	1/4W
R513	1-249-460-11	CARBON	15K	5%	1/4W
R514	1-249-421-11	CARBON	2.2K	5%	1/4W
R520	1-247-700-11	CARBON	100	5%	1/4W
R801	1-249-422-11	CARBON	2.7K	5%	1/4W
R802	1-249-422-11	CARBON	2.7K	5%	1/4W
R803	1-249-422-11	CARBON	2.7K	5%	1/4W
R804	1-249-422-11	CARBON	2.7K	5%	1/4W
R805	1-249-422-11	CARBON	2.7K	5%	1/4W
R806	1-249-422-11	CARBON	2.7K	5%	1/4W
R807	1-249-422-11	CARBON	2.7K	5%	1/4W
R808	1-249-422-11	CARBON	2.7K	5%	1/4W
R809	1-249-424-11	CARBON	3.9K	5%	1/4W
R810	1-249-424-11	CARBON	3.9K	5%	1/4W
R811	1-249-424-11	CARBON	3.9K	5%	1/4W
R812	1-249-424-11	CARBON	3.9K	5%	1/4W
R813	1-249-424-11	CARBON	3.9K	5%	1/4W
R814	1-249-424-11	CARBON	3.9K	5%	1/4W
R815	1-249-424-11	CARBON	3.9K	5%	1/4W
R816	1-249-424-11	CARBON	3.9K	5%	1/4W
R817	1-249-427-11	CARBON	6.8K	5%	1/4W
R818	1-249-427-11	CARBON	6.8K	5%	1/4W
R819	1-249-427-11	CARBON	6.8K	5%	1/4W
R820	1-249-427-11	CARBON	6.8K	5%	1/4W
R821	1-249-427-11	CARBON	6.8K	5%	1/4W
R822	1-249-427-11	CARBON	6.8K	5%	1/4W
R823	1-249-427-11	CARBON	6.8K	5%	1/4W
R824	1-249-427-11	CARBON	6.8K	5%	1/4W
R825	1-249-432-11	CARBON	18K	5%	1/4W
R826	1-249-432-11	CARBON	18K	5%	1/4W
R827	1-249-432-11	CARBON	18K	5%	1/4W
R828	1-249-432-11	CARBON	18K	5%	1/4W
R829	1-249-432-11	CARBON	18K	5%	1/4W
R830	1-249-432-11	CARBON	18K	5%	1/4W
R831	1-249-432-11	CARBON	18K	5%	1/4W
R832	1-249-432-11	CARBON	18K	5%	1/4W
R833	1-249-429-11	CARBON	10K	5%	1/4W
R834	1-249-429-11	CARBON	10K	5%	1/4W
R835	1-249-429-11	CARBON	10K	5%	1/4W
R836	1-249-429-11	CARBON	10K	5%	1/4W
R837	1-249-429-11	CARBON	10K	5%	1/4W
R838	1-249-429-11	CARBON	10K	5%	1/4W
R839	1-249-429-11	CARBON	10K	5%	1/4W
R840	1-249-429-11	CARBON	10K	5%	1/4W
R841	1-249-429-11	CARBON	10K	5%	1/4W
R842	1-249-429-11	CARBON	10K	5%	1/4W
R843	1-249-429-11	CARBON	10K	5%	1/4W
R844	1-249-429-11	CARBON	10K	5%	1/4W
R845	1-249-429-11	CARBON	10K	5%	1/4W
R846	1-249-429-11	CARBON	10K	5%	1/4W
R847	1-249-429-11	CARBON	10K	5%	1/4W
R848	1-249-429-11	CARBON	10K	5%	1/4W
R849	1-249-411-11	CARBON	330	5%	1/4W
R850	1-249-418-11	CARBON	1.2K	5%	1/4W
R851	1-249-410-11	CARBON	270	5%	1/4W
R852	1-249-410-11	CARBON	270	5%	1/4W
R853	1-249-407-11	CARBON	150	5%	1/4W

Ref.No	Part No.	Description				
R854	1-249-406-11	CARBON	120	5%	1/4W	
R855	1-249-409-11	CARBON	220	5%	1/4W	
R856	1-249-412-11	CARBON	390	5%	1/4W	
R857	1-247-903-00	CARBON	1M	5%	1/4W	
R901	1-247-704-11	CARBON	220	5%	1/4W	
R902	1-247-704-11	CARBON	220	5%	1/4W	
R903	1-247-710-11	CARBON	560	5%	1/4W	
R904	1-247-710-11	CARBON	560	5%	1/4W	
R905	1-247-719-11	CARBON	3.3K	5%	1/4W	
R906	1-247-719-11	CARBON	3.3K	5%	1/4W	
R907	1-247-714-11	CARBON	1.2K	5%	1/4W	
R908	1-247-714-11	CARBON	1.2K	5%	1/4W	
R909	1-249-466-11	CARBON	56K	5%	1/4W	
R910	1-249-466-11	CARBON	56K	5%	1/4W	
R911	1-249-556-11	CARBON	1.5K	5%	1/4W	
R912	1-249-556-11	CARBON	1.5K	5%	1/4W	
R913	1-249-417-11	CARBON	1K	5%	1/4W	
R914	1-247-713-11	CARBON	1K	5%	1/4W	
R920	⚠1-212-877-11	FUSIBLE	68	5%	1/4W	F
R951	1-249-405-11	CARBON	100	5%	1/4W	
R952	1-249-520-11	CARBON	47	5%	1/4W	
R953	1-249-427-11	CARBON	6.8K	5%	1/4W	
R954	1-247-883-00	CARBON	150K	5%	1/4W	
R955	1-249-556-11	CARBON	1.5K	5%	1/4W	
R956	1-249-429-11	CARBON	10K	5%	1/4W	
R970	⚠1-212-871-11	FUSIBLE	39	5%	1/4W	F
RV101	1-228-995-00	RES, ADJ, CARBON 22K				
RV102	1-228-995-00	RES, ADJ, CARBON 22K				
RV103	1-228-995-00	RES, ADJ, CARBON 22K				
RV104	1-228-993-00	RES, ADJ, CARBON 4.7K				
RV201	1-228-990-00	RES, ADJ, METAL GLAZE 1K				
RV800	1-238-315-21	RES, VAR, CARBON 10K/10K (LINE OUT) (Including VOL MOTOR)				
RY301	1-515-683-11	RELAY				
S251	1-571-736-11	SWITCH, LEAF (OUT SW)				
S252	1-571-736-11	SWITCH, LEAF (IN SW)				
S801	1-554-596-21	SWITCH, KEY BOARD (1)				
S802	1-554-596-21	SWITCH, KEY BOARD (2)				
S803	1-554-596-21	SWITCH, KEY BOARD (3)				
S804	1-554-596-21	SWITCH, KEY BOARD (4)				
S805	1-554-596-21	SWITCH, KEY BOARD (5)				
S806	1-554-596-21	SWITCH, KEY BOARD (6)				
S807	1-554-596-21	SWITCH, KEY BOARD (7)				
S808	1-554-596-21	SWITCH, KEY BOARD (8)				
S809	1-554-596-21	SWITCH, KEY BOARD (9)				
S810	1-554-596-21	SWITCH, KEY BOARD (10)				
S811	1-554-596-21	SWITCH, KEY BOARD (11)				
S812	1-554-596-21	SWITCH, KEY BOARD (12)				
S813	1-554-596-21	SWITCH, KEY BOARD (13)				
S814	1-554-596-21	SWITCH, KEY BOARD (14)				
S815	1-554-596-21	SWITCH, KEY BOARD (15)				
S816	1-554-596-21	SWITCH, KEY BOARD (16)				
S817	1-554-596-21	SWITCH, KEY BOARD (17)				
S818	1-554-596-21	SWITCH, KEY BOARD (18)				
S819	1-554-596-21	SWITCH, KEY BOARD (19)				
S820	1-554-596-21	SWITCH, KEY BOARD (20)				
S821	1-554-596-21	SWITCH, KEY BOARD (PLAY MODE C INDEX)				
S822	1-554-596-21	SWITCH, KEY BOARD (>20)				
S823	1-554-596-21	SWITCH, KEY BOARD (EDIT TIME FADE)				
S824	1-554-596-21	SWITCH, KEY BOARD (ERASE)				
S825	1-554-596-21	SWITCH, KEY BOARD (CLEAR)				
S826	1-554-596-21	SWITCH, KEY BOARD (CHECK)				
S827	1-554-596-21	SWITCH, KEY BOARD (▶▶)				
S828	1-554-596-21	SWITCH, KEY BOARD (◀◀)				

Ref.No	Part No.	Description
S829	1-554-596-21	SWITCH, KEY BOARD (FILE RECALL)
S830	1-554-596-21	SWITCH, KEY BOARD (FADER)
S831	1-554-596-21	SWITCH, KEY BOARD (II)
S832	1-554-596-21	SWITCH, KEY BOARD (■)
S833	1-554-596-21	SWITCH, KEY BOARD (⏮)
S834	1-554-596-21	SWITCH, KEY BOARD (⏭)
S835	1-554-596-21	SWITCH, KEY BOARD (FILE)
S836	1-554-596-21	SWITCH, KEY BOARD (TIME/MODE)
S837	1-554-596-21	SWITCH, KEY BOARD (AUTO SPACE)
S838	1-554-596-21	SWITCH, KEY BOARD (REPEAT)
S839	1-554-596-21	SWITCH, KEY BOARD (△)
S840	1-554-596-21	SWITCH, KEY BOARD (⏏OPEN/CLOSE)
S841	1-554-596-21	SWITCH, KEY BOARD (CONTINUE/SINGLE)
S842	1-554-596-21	SWITCH, KEY BOARD (SHUFFLE)
S843	1-554-596-21	SWITCH, KEY BOARD (PROGRAM)
S844	1-554-596-21	SWITCH, KEY BOARD (DISPLAY)
S846	1-554-481-00	SWITCH, SLIDE (TIMER)
S990	⚠1-570-156-11	SWITCH, PUSH (AC POWER)(1 KEY)
SW845	1-554-419-00	SWITCH, PUSH (1 KEY) (DIGITAL OUTPUT)
T901	⚠1-449-631-11	(E)....TRANSFORMER, POWER
T901	⚠1-449-632-11	(US,CND)....TRANSFORMER, POWER
T901	⚠1-449-633-11	(AEP, UK)....TRANSFORMER, POWER
TH970	1-808-065-11	THERMISTOR, POSITIVE
TH971	1-808-065-11	THERMISTOR, POSITIVE
TH972	1-808-065-11	THERMISTOR, POSITIVE
TH973	1-808-065-11	THERMISTOR, POSITIVE
VS901	⚠1-526-576-51	(E)....SELECTOR, POWER VOLTAGE
X301	1-577-157-11	VIBRATOR, CERAMIC 8MHz
X350	1-567-926-11	VIBRATOR, CRYSTAL
X801	1-577-082-11	VIBRATOR, CERAMIC 4MHz

Part No.	Description
	ACCESSORY & PACKING MATERIALS ***********************
1-558-271-11	CORD, CONNECTION
3-786-738-11	(CND, AEP, UK, E)....MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
3-786-738-21	(US)....MANUAL, INSTRUCTION (ENGLISH)
3-786-738-41	(AEP)....MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN)
3-795-629-11	(AEP)....INSTRUCTION
4-847-802-00	(US, CND, AEP, E)....SCREW
4-923-548-01	CUSHION (UPPER)
4-923-549-01	CUSHION (LOWER)
*4-929-016-01	STOPPER, DISK TABLE
*4-929-069-01	INDIVIDUAL CARTON
4-925-305-01	(UK)....CUSHION, SIDE

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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